Santa Clara Valley Water District

Fiscal Year 2016-20
Capital Improvement Plan

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May 12, 2015

Santa Clara Valley Water District

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OVERVIEW

The Santa Clara Valley Water District's (District) Fiscal Year 2016-20 Five-Year Capital Improvement Program (CIP) is a projection of the District's capital funding for planned capital projects from Fiscal Year 2015-16 through Fiscal Year 2019-20. The purpose of the CIP is to document planned District projects to help integrate District work with the larger community by aligning District planning with other local agency planning efforts.

The District's CIP is developed following the guidelines of Government Code (GC) § 65403 which governs the development and annual review of Capital Improvement Programs developed by special districts in the State of California. State law requires that the program be reviewed and updated annually. It also requires circulation of the document to all agencies having land use authority within the District boundaries prior to adoption of the program. This document is intended to provide the information necessary to facilitate planning and construction of water related infrastructure to meet the needs of Santa Clara County.

SANTA CLARA VALLEY WATER

Mission

The mission of the district is to provide Silicon Valley safe, clean water for a healthy life, environment, and economy.

The CIP is prepared in accordance with the guidelines established by the Government Finance Officer Association (GFOA). Capital projects in this document are defined by both the accounting criteria for capital investment and Public Contract Code definition of public works. They exceed $50,000 in cost, have long-term life spans and are generally nonrecurring. They usually fall within one of the following six categories.

1. Acquisition of land for public purpose
2. Construction of a significant facility, i.e. a flood protection facility, a water treatment facility, or a building
3. Addition to or expansion of an existing facility
4. Nonrecurring rehabilitation or major repair to all or part of a facility provided the total cost is more than $50,000
5. Specific planning, engineering study, or design work related to an individual project which falls within the above categories
6. Significant one-time investment in tangible goods of any nature, the benefit of which will accrue over several years. Examples include items such as large initial investments or improvements in technology or the purchase of a new telephone system.

The CIP includes several Small Capital Improvement Projects in the various cost centers. These projects will be ongoing and will be used to fund multiple small projects to undertake repairs, replacements, and minor modifications to existing water utility, watershed or campus facilities. Small Capital Improvements generally meet the following criteria:

1. Project cost is less than $1.5 million
2. Project can be completed within 2 fiscal years
3. Rights-of-Way acquisition is not required.

The proposed funding for the Water Supply Small Capital Improvement projects is anticipated to vary each year based on the work identified in the Water Utility Asset Management Plan. The Almaden Campus Small Capital Improvements project and Small Capital Improvements-Watersheds project are funded at a flat rate each year. Unspent funds in these projects will not carry forward from previous years.

There are some miscellaneous capital expenditures incurred by the District that are not captured in the CIP. These capital expenditures include certain components of water purchases, indirect costs to manage and train staff that are fully engaged in capital work, and routine replacement of computers, vehicles and large equipment.

ALIGNMENT WITH ENDS POLICIES

The District plans, manages and carries out capital improvements to comply with the Ends Policies and Executive Limitations established by its Board of Directors. Under the District's Policy Governance Model, Ends Policies describe the outcomes or results to be achieved by District staff. Balancing the Ends Policies are the Executive Limitations, which set limits on staff activities in fulfilling the Ends.

Program plans or master plans are developed to achieve the results established by the Ends Policies and to further define the goals and objectives of each Ends Policy. The Board either formally approves the plans or provides direction to staff, confirming the goals and objectives. These plans then become the basis for staff to propose and develop individual capital projects. Project ideas that are proposed by Operation staff must be vetted via a feasibility study and then validated to prepare a business case for proceeding with a capital investment. Appendix E contains the project feasibility studies that are currently underway. Alignment of the CIP with program or master plans provides a direct link to Ends Policies and ensures the District's long-term capital investments are planned and executed according to the Board's priorities. Three Ends Policies directly drive program or master plans and the types of capital improvements described in the CIP.

- Ends Policy E-2 "There is a reliable, clean water supply for current and future generations.
- Ends Policy E-3 "There is a healthy and safe environment for residents, businesses and visitors, as well as for future generations."
  - E-3.1 "Provide natural flood protection for residents, businesses, and visitors"
  - E-3.2 "Reduce potential for flood damages"
- Ends Policy E-4 "There is water resources stewardship to protect and enhance watersheds and natural resources and to improve the quality of life in Santa Clara County."

(See flowchart "CIP Process Alignment with Ends Policies" on page I-5)

CIP PLANNING PROCESS

The District conducts an annual planning process for its Capital Improvement Program. The purpose of the planning process is to ensure the capital projects included in the CIP:

- meet the Board's priorities and contribute to the objectives of the District's various programs
- have identified funding for the duration of the projects
- are coordinated with the local jurisdiction's General Plans.

The CIP planning process is carried out in accordance with the following Executive Limitations.

- Executive Limitation EL-4.3.1., "A BAO shall produce an annual Rolling Five-Year Capital Improvement Plan with the first year serving as the adopted capital budget and the remaining years in place as a projected capital funding plan."
- Executive Limitation EL-4.4.1., "A BAO shall demonstrate to the Board the planned expenditures for the identified and selected capital projects in the Rolling Five-Year Capital Improvement Plan are alligned with the Board's capital priorities."

The annual CIP process is the responsibility of the CIP Committee comprised of division managers, with the responsibility to initiate or implement capital projects. The detailed process is a documented ISO procedure. It includes the following key steps:

- Management review and approval, to ensure staff proposed projects are aligned with Board policies and approved program plans
- Validation of projects to ensure there is a business case for doing the project and that a capital investment is the best solution
- Prioritization of all projects, including continuing and newly proposed projects, to ensure the projects in the CIP reflect Board priorities
- Financial analysis, to determine the capacity of the District's capital funding sources to fund the proposed capital projects
- Outreach to local jurisdictions within Santa Clara County, to coordinate the District's Capital

Improvement Program with their General Plans
- Board review and direction at appropriate steps, to ensure the CIP reflects Board policies and priorities
- Board adoption of the CIP plan

The annual CIP planning process starts with collecting information on proposed new capital projects in July, followed by preliminary scoping, priority and financial analyses to produce a Draft CIP in February. The Draft CIP serves as a multi-year plan, together with other long-term planning efforts of the District, is the basis for the budget for the following fiscal year. This Draft CIP plan is also reviewed by local jurisdictions for consistency with their General Plans. While the CIP is being reviewed by the cities and County the budget is being reviewed and finalized. The Board concludes the outreach on the CIP with a public hearing. The first year of the CIP is reconciled with the budget and the two documents are presented to the board for formal adoption in May.

Board Direction and CIP Outreach

The Board has many opportunities each year to provide direction on projects contained in the Capital Improvement Program. The CIP is developed in parallel with the budget and the water rates. It is presented to the Board on three separate occasions for review and input. Early in the process the project list is presented to the board so they can provide direction to staff, ensuring that the document is developed in accordance with board priorities. The direction received is used to develop the Draft CIP which is reviewed and accepted by the Board before staff is authorized to release the document for public review. The CIP is adopted by the Board in May following a public hearing.

On January 13, 2015 the FY 2016-20 project list and prioritization criteria were reviewed and endorsed by the Board. The following are highlights of changes from the previous year that have been approved as the basis for the FY 2016-20 CIP:

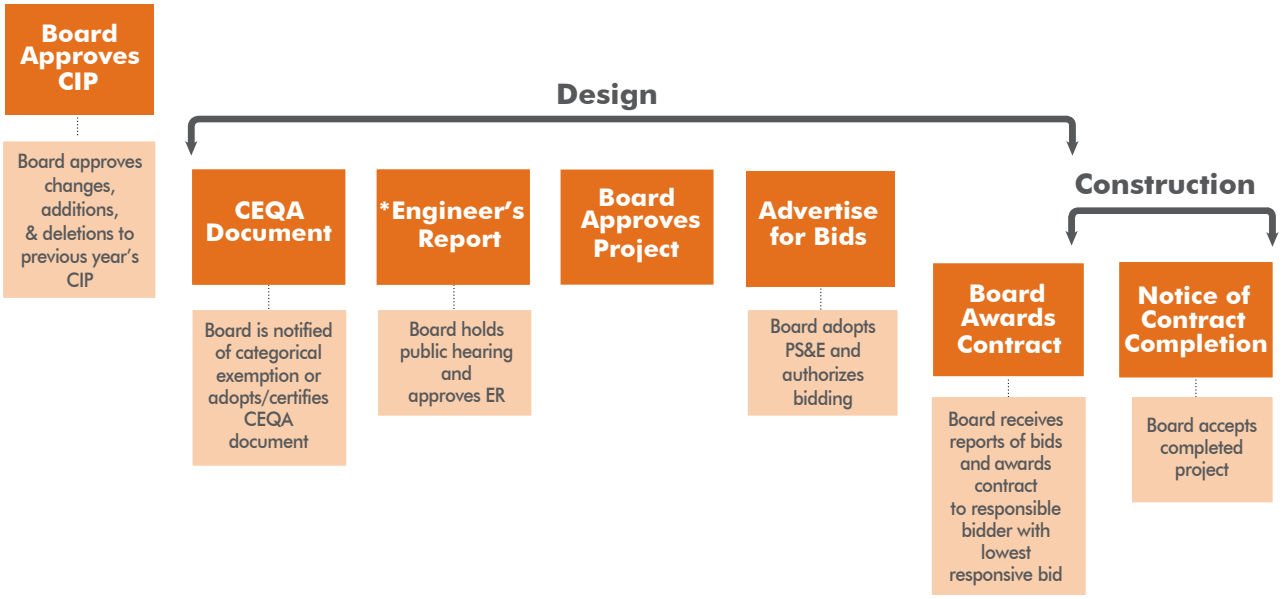
- To fully fund the Water Supply projects in the FY 2016-20 CIP, an increase in the groundwater production charges of 19.7% in North County and 11.6% for South County will be required.
- Six new projects with a combined cost of $51 million were added to the CIP. They are; Vasona Pumping Plant Upgrade, Canoas Creek Rodent Damage Repair, Hale Creek Enhancement Pilot Study, Salt Ponds A5-11 Restoration, Data Consolidation, and Software Upgrades & Enhancements.
- The continuing drought increases the urgency to implement the Water Supply Infrastructure Master Plan to provide for long term water supply reliability. The funding for this work is identified under the Reycled Water Facilities's Expansion Project.
- The continuing drought has lead the District to reprioritize implementing Indirect Potable Reuse (IPR). Funding to do planning for IPR projects and begin design for expanding Silicon Valley Advanced Water Purification Center was added to the CIP in April 2015.

Overview

Each project in the CIP goes through a planning phase, design phase and construction phase.

The Board may determine to not implement a project based on various considerations such as financial constraints, environmental impacts or community desire during a project's planning or design phases. Approval of a capital project by the Board occurs at the end of the design phase when the Board approves the plans and specifications to solicit bids for construction of the project.

OPPORTUNITIES FOR BOARD DIRECTION ON CAPITAL PROJECTS



** Board approval of the Engineer's Report is required only on projects with zone funding.*

Rinconada Water Treatment Plant Residuals Management

CIP PROCESS ALIGNMENT WITH ENDS POLICIES

Ends Policy E-2
There is a reliable, clean water supply for current and future generations.

→

Program Plans or Master Plans
- **1990** SCVWD Action Plan for reducing disinfection by-product (Board approved)
- Integrated Water Resource Plan (Board Work Studies)
- **1999** Producer-Wholesaler Agreement for Supply of Recycled Water between SCRWA and the District (Board approved)
- **2004** Santa Clara Valley Water District Asset Management Program Implementation Plan
- **2005** Urban Water Management Plan (Board approved)
- **2005** Dam Safety Plan
- **2005** Water Infrastructure Reliability Plan
- **2006** South County Water Recycling MasterPlan (Board approved)
- **2012** Safe, Clean Water Program (Board/Voter approved)
- **2012** Water Supply Infrastructure Master Plan (Board approved)

→

FY 2015-2019 CIP
- **32 - Water Supply Capital Projects**

Ends Policy E-3.1 & E-3.2
Provide natural flood protection for residents, businesses, and visitors. Reduce potential for flood damages.

→

Program Plans or Master Plans
- **1982, 1986, 1990** Benefit Assessment Program (Board approved)
- **2000** Clean, Safe Creek Program (Board/Voter approved)
- **2001** Stream Maintenance Program (Board approved) Annual Watershed Facility Inspection Program (for all watersheds)
- Feasibility Cost Sharing Agreements with the US Army Corps of Engineers
- **2012** Safe, Clean Water Program (Board/Voter approved)

→

FY 2015-2019 CIP
- **18 - Flood Protection Capital Projects**

Ends Policy E-4
There is water resources stewardship to protect and enhance watersheds and natural resources and to improve the quality of life in Santa Clara County.

→

Program Plans or Master Plans
- CEQA commitments
- Regulatory permitting commitments
- Enhancement Program per Clean Safe Creeks Program (Board/Voter approved)
- Enhancement opportunities determined appropriate by the Board
  - Fish and Aquatic Habitat Collaborative Effort
  - Natural Resource Damage Assessment
  - Other
- **2012** Safe, Clean Water Program (Board/Voter approved)

→

FY 2015-2019 CIP
- **8 - Water Resources Stewardship Projects**

Strategic Support

→

Program Plans or Master Plans
- **1990** Facilities Master Plan - Site Analysis Report (Board approved)
- **2005** Needs Assessment and Plan Feasibility Study
- **2012** Campus Master Plan (Board approved)

→

FY 2015-2019 CIP
- **3 - Buildings and Grounds Capital Projects**

Strategic Support

→

Program Plans or Master Plans
- **2001** Information System Master Plan
- **2003** Enterprise-wide Master Communication Plan
- **2012** Information Systems Master Plan

→

FY 2015-2019 CIP
- **5 - Information Technology Capital Projects**

CIP Prioritization and Financial Analyses

FISCAL YEAR 2016-20 CIP SUMMARY

The recommended CIP for FY 2016-20 includes 66 priority projects to implement the goals and objectives of the District's program plans and master plans. These projects are grouped into five types of improvements.

- *Water Supply Capital Improvements*
  32 projects contributing to Ends Policy E-2
- *Flood Protection Capital Improvements*
  18 projects contributing to Ends Policy E-3
- *Water Resources Stewardship Capital Improvements*
  8 projects contributing to Ends Policy E-4
- *Buildings and Grounds Capital Improvements*
  3 project supporting District efforts to achieve the Ends Policies
- *Information Technology Capital Improvements*
  5 projects supporting District efforts to achieve the Ends Policies

Each of the 66 projects in the CIP has an identified funding source based on the type of improvement or function of the project.

The principal sources of revenue for the District are property taxes, a special parcel tax and water production charges for use of groundwater, treated water, and surface water. These revenues are organized into eight funds. Seven of the eight funds have a specific purpose and only finance the operational and capital expenditures related to that purpose. In 2008 the Board decided to combine the individual watershed funds into a county-wide watershed and stream stewardship fund to send the message that the watershed activities are managed for the benefit of the county. This also streamlines most tracking and accounting activities for staff. The District continues to receive a small amount of revenue from benefit assessments that were approved by voters in the 80s and 90s. These funds are dedicated to specific watersheds and the accounting practices to ensure that they are spent and accounted for appropriately have been kept in place. As shown in the chart below, four of the eight funds are used to finance the five types of capital improvements in the CIP.

In November 2012 the voters overwhelmingly approved the Safe, Clean Water and Natural Flood Protection Program (Safe, Clean Water). This program replaces the Clean, Safe Creeks Program that would sunset in 2016. Safe, Clean Water has an expanded focus that includes funding for important Water Utility projects as well as additional funding for Flood Protection and Water Resources Stewardship projects. The Safe, Clean Water program will provide a total of $548 million of special parcel tax revenue for operations and capital projects.

The District aggressively pursues external funding to supplement its principal revenue when practical. In recent years District projects benefited from $43.4 million in American Recovery and Reinvestment Act (ARRA) funding. A number of District projects are receiving substantial State funding through grants from the Department of Water Resources (DWR) either directly or through local partner agencies. For a complete listing of grants and partnerships see Appendix C.

- $25 million for Lower Silver Creek from DWR
- $8 million for San Francisquito Creek through the Joint Powers Authority
- $30 million Upper Berryessa, Lower Berryessa, and Lower Penitencia
- $2.5 million for Wolfe Road Recycled Water Pipeline from DWR

DISTRICT PRIORITIES	District Funds				
Type of Improvement	Water Utility Enterprise Fund	Watershed Stream Stewardship Fund	General Fund	Safe, Clean Water Fund	Information Technology Fund
Water Supply	●			●	
Flood Protection		●		●	
Water Resources Stewardship	●	●		●	
Buildings and Grounds			●		
Information Technology	●				●

This chart identifies which types of improvement are associated with each of the District's five capital funds.

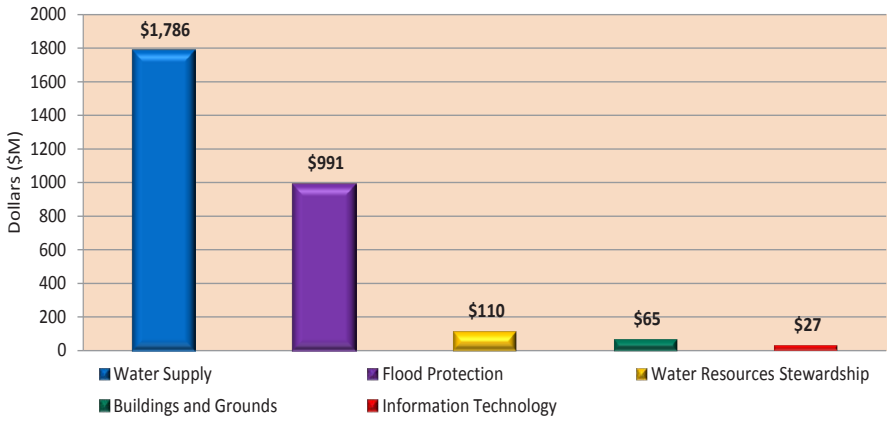
Overview

The estimated total funding required to implement the 66 projects defined in the CIP is $3.45 billion. The District has been and continues to be successful in leveraging funding for its capital projects through partnerships with federal, state, and local agencies. Of the $3.45 billion total funding, $704 million is expected from the District's various partners, such as the U.S. Army Corps of Engineers (USACE), and $2.745 billion from the District. A list of projects that are funded cooperatively with the District's partners is summarized in Appendix C. Funding from partners for the cooperative capital projects generally come in two ways:

- Funds that are made available by the partners when needed, or
- Funds that are reimbursed by the partners after the District advances the needed funds.

Of the $704 million that is expected from the District's partners, $234 million is advanced by the District and reimbursed later. This $234 million is included in the CIP, and increases the District's total funding requirement from $2.745 billion to $2.979 billion, to ensure that the District has adequate funding to advance the reimbursement.

CIP Funding by Type of Improvement

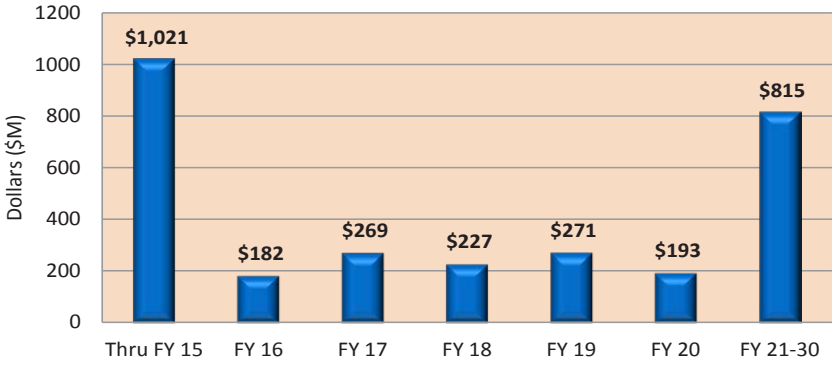


The chart above shows the distribution by type of improvement, of the $2.979 billion total CIP funding as planned in the FY 2016-20 CIP.

The chart above shows how the $2.979 billion to implement the 66 projects is allocated to each of the five Types of Improvements.

Of the $2.979 billion in total funding for the 66 projects identified in the CIP, the Board has appropriated $1.021 billion in prior years (through June 30, 2015 the end of Fiscal Year 2014-15). This year's CIP process identified additional funding needs of $1.958 billion to complete the projects in the CIP, with $182 million allocated in Fiscal Year 2015-16 and a total of $1.78 billion proposed for future years. The table shown on page I-8 breaks down the fiscal year total by the five types of improvement and by applicable funding sources.

CIP Funding Schedule



The chart above shows how the $2.979 billion is distributed by fiscal year.

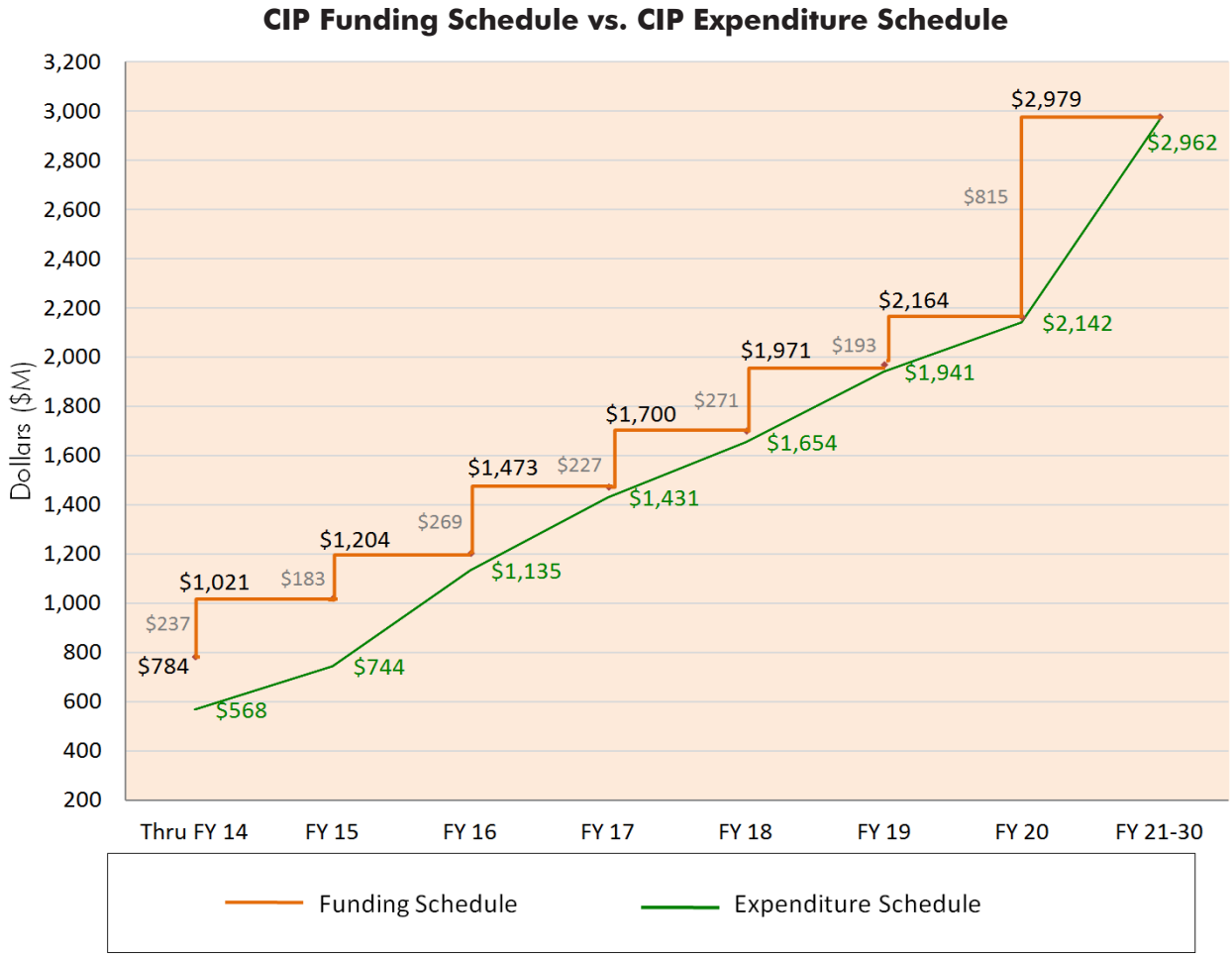
CIP Funding Schedule by Type of Improvement and Funding Sources ($K)

	Through FY14	FY15	FY15 Unspent	FY16	FY17	FY18	FY19	FY20	FY21-30	TOTAL
WATER SUPPLY										
Water Utility Enterprise Fund	239,733	118,931	68,478	77,464	123,118	148,003	217,110	144,615	703,613	1,772,587
Safe, Clean Water and Natural Flood Protection Fund	-	-	-	-	-	-	-	-	13,911	13,911
Water Supply Total	239,733	118,931	68,478	77,464	123,118	148,003	217,110	144,615	717,524	1,786,498
FLOOD PROTECTION										
Watershed Stream Stewardship Fund	202,288	38,766	33,489	29,024	30,858	19,117	9,135	397	167	329,752
Safe, Clean Water and Natural Flood Protection Fund	326,293	58,189	159,539	65,787	94,270	21,526	25,679	36,100	33,346	661,190
Flood Protection Total	528,581	96,955	193,028	94,811	125,128	40,643	34,814	36,497	33,513	990,942
WATER RESOURCES STEWARDSHIP										
Water Utility Enterprise Fund	765	-	-	-	2,028	3,649	775	802	7,886	15,905
Watershed Stream Stewardship Fund	11,213	4,244	1,717	2,313	3,366	2,589	2,803	802	7,886	35,216
Safe, Clean Water and Natural Flood Protection Fund	1,052	1,998	416	2,184	7,050	18,950	12,243	7,230	7,886	58,593
Mitigation Total	13,030	6,242	2,133	4,497	12,444	25,188	15,821	8,833	23,658	109,713
BUILDINGS AND GROUNDS										
General Fund	1,685	9,876	7,691	3,278	7,892	12,625	2,360	2,475	24,782	64,973
Buildings and Grounds Total	1,685	9,876	7,691	3,278	7,892	12,625	2,360	2,475	24,782	64,973
INFORMATION TECHNOLOGY										
Water Utility Enterprise Fund	-	473	8	267	82	93	97	27	3,987	5,026
General Fund	1,199	-	-	-	-	-	-	-	-	1,199
Information Technology Fund	-	4,671	3,521	1,914	829	476	859	484	11,348	20,581
Information Technology Total	1,199	5,144	3,529	2,181	911	569	956	511	15,335	26,806
TOTAL	784,228	237,148	274,859	182,231	269,493	227,028	271,061	192,931	814,812	2,978,932
CUMULATIVE TOTAL	784,228	1,021,376		1,203,607	1,473,100	1,700,128	1,971,189	2,164,120	2,978,932	

FY 2014-15 Funds to be reappropriated

Overview

As shown in the table, CIP Funding Schedule by Type of Improvement and Funding Sources (on the previous page): approximately $275 million of the already appropriated $1.021 billion is not spent and is reappropriated to Fiscal Year 2015-16 for continued use in those same projects in amounts consistent with the project expenditure schedule for Fiscal Year 2015-16. The following chart explains the relationship between the CIP Funding Schedule and Expenditure Schedule.



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Water Supply Capital Improvements

WATER SUPPLY OVERVIEW

The District manages and operates a complex and integrated water supply infrastructure, including storage, transmission, treatment, and recycled water facilities, to meet the Board's Ends Policy E–2, "There is a reliable, clean water supply for current and future generations."

Storage Facilities

- 10 surface reservoirs
- 393 acres of recharge ponds
- 76 miles of in-stream recharge
- Ground water basins

Transmission Facilities

- 142 miles of pipelines
- 3 pump stations

Treatment Facilities

- 3 treatment plants

Recycled Water Facilities

- Silicon Valley Advanced Water Purification Center
- South County Recycled Water Distribution System

Planning, design and construction of the above facilities took decades of effort. Beginning in the 1930s, reservoirs and recharge ponds were built to halt depletion of the ground water basin and subsidence, followed by pipelines and treatment plants to bring in state and federal water to meet growing water demands in the County.

In the early 1990s, the District embarked on new and challenging capital improvements to upgrade its three drinking water treatment plants in order to meet new Environmental Protection Agency rules for improved water quality required by 1996 amendments to the Safe Drinking Water Act. Fifteen years of effort and capital funding brought the upgrades at Penitencia and Santa Teresa Water Treatment Plants to completion. Delivery of ozonated water produced at these two treatment plants began in 2006.

The Rinconada Water Treatment Plant (RWTP) was built in the late 1960s and is reaching the end of its useful life. Projects to replace and update the treated water valves and residuals management process, and to seismically retrofit the Operations Building are underway. The RWTP Reliability Improvement Project will add raw water ozonation, construct new flocculation plate settler clarification, and dual media filtration facilities. It will also increase plant capacity from 80 to 100 million gallons per day. Construction of this Project will begin in summer 2015 and continue for approximately 5 years. It will be constructed in a phased approach that will allow the plant to continue operations throughout the construction process.

With a significant portion of the Water Supply infrastructure approaching fifity to sixty years of age, maintaining and upgrading the existing infrastructure to ensure each facility functions as intended for its useful life became the focus of the Water Supply Capital Improvement Program in recent years, as shown in the CIP.

The District owns and operates ten major dams. While these dams provide water supply, flood management, recreation, and environmental flow benefits, there are consequences and costs for dam ownership. Knowledge of seismic stability design and construction was very rudimentary during the design and construction of District dams in the 1930s and 50s. Both liquefaction of dam embankments and foundations and embankment stability is critical for seismic stability. Several of the District reservoirs have operating restrictions imposed by the Department of Safety of Dams (DSOD) while an engineering analysis of how the District's dams would perform under a major seismic event is completed and appropriate corrective actions are implemented.

On November 26, 2010 the Board was informed that Anderson Dam will require a seismic retrofit and the operating restriction was increased to 45 feet below the crest of the dam. Since this briefing, the consultant has determind that a magnitude 7.2 Maximum Credible Earthquake on nearby Calaveras Fault could cause a deformation (slumping) of the dam crest by 25 feet. The Anderson Dam Seismic Retrofit Project ($200 million) was initiated in January 2011.

The District completed a seismic stability evaluation of Almaden, Calero, and Guadalupe Dams in late 2010. Almaden Dam was found to be seismically stable; however both Calero and Guadalupe Dams will require seismic retrofitting to meet DSOD performance criteria. A project was initiated in fiscal year 2013 to address the Calero and Guadalupe Dams retrofit needs. A separate capital project to address outlet and spillway improvements at Almaden Dam is continuing. Seismic stability evaluations were conducted at Lenihan and Stevens Creek Dams. Both were found to be seismically stable.

Major Capital Improvements Identified in CIP

Storage:

- Anderson Dam Seismic Retrofit
- Calero Dam Seismic Retrofit
- Guadalupe Dam Seismic Retrofit
- Almaden Dam Improvements

Transmission:

- 5-Year Pipeline Rehabilitation
- Main and Madrone Pipeline Rehabilitation
- Penitencia Delivery Main/Force Main Seismic Retrofit
- TC HCP Implementation Fund

Treatment:

- Infrastructure Reliability
- IRP2 WTP Operations Buildings Seismic Retrofit
- RWTP FRP Residuals Management Modifications
- RWTP Reliability Improvement

Recycled Water:

- Silicon Valley Advanced Water Purification Center
- South County Recycled Water Pipeline
- Recycled Water Facilities' Expansion

PRIORITY PROCESS AND FINANCIAL ANALYSIS

A rigorous priority setting process was conducted to ensure that the new water supply projects proposed to be added to the Fiscal Year 2016-20 CIP reflect the Board's priorities. The priority criteria used to evaluate these projects is included in Appendix A.

A financial analysis of the Water Utility Enterprise Fund, the funding source for water supply capital improvements, was performed to determine the limitations to funding the projects proposed for the Fiscal Year 2016-20 capital program. Results of this year's prioritization process and financial analysis are summarized in Appendix B.

Based on the feedback from the FY 2006-07 CIP and Board direction, a concerted effort was made to develop a multi-year water charge structure that would support the priority work of the water utility business. Staff analyzed both immediate requirements and anticipated future needs to support operations and the continued appropriations for capital investment needed to maintain infrastructure and comply with water quality regulations. Each year staff reviews Board priorities, the financial needs of the water utility enterprise fund, current political and economic factors and updates the multi-year structure. The rate structure for the first year is recommended to the Board for adoption during the annual rate setting process.

While the District has one Water Utility fund, the District has two zones of benefit for the purposes of setting groundwater production charges. The North County Zone is very different from the South County Zone in that the water infrastructure is substantially separate and distinct with an entirely different cost of providing service. For example the north zone overlays the Santa Clara groundwater subbasin and is much more densely populated requiring a large amount of imported water from outside the county to provide a reliable water supply. To receive, filter and distribute the imported water, the District chose to build 3 water treatment plants and a network of raw water and treated water distribution pipelines many decades ago. The south zone on the other hand overlays the Coyote and Llagas groundwater subbasins and is more sparsely populated. South County relies primarily on groundwater to serve roughly 50% agricultural and 50% non-agricultural water needs. A small amount of recycled water is served in the Gilroy area. No treated water is served in South County. A small amount of imported water is used to recharge the groundwater

subbasins in the South County. The groundwater subbasins have the ability to absorb the recharge and remain healthy under normal water usage levels unlike the North County where several sections of the groundwater basin are very sensitive, which is the main reason for building the treatment plant system long ago.

The preliminary FY 2015-16 groundwater production charge analysis includes three preliminary scenarios which vary depending on the severity of the drought and the District response in the coming year. The proposed increase for FY 2015-16 had not yet been determined when the Draft CIP was published.

The majority of capital projects included in the 5-Year CIP are related to asset management which replaces aging equipment and facilities, or infrastructure reliability, which protects the county's baseline water supply. The Water Supply and Infrastructure Master Plan was completed and adopted by the Board in 2012. It recommends: 1) investing in existing supplies and infrastructure; 2) optimizing the use of existing supplies and infrastructure; and 3) increasing recycling and conservation. The capital components of the Water Supply Master Plan were funded beginning in the 2015-19 CIP.

The District is currently engaged in several critical studies related to understanding the conditions of various existing water supply facilities and meeting future water supply needs of the county including South Bay Water Recycling Strategic Master Plan, and collaborating with the City of Sunnyvale on their Recycled Water Master Plan. These studies will likely identify a number of new capital projects with significant capital investments.

Water Supply Capital Improvements

The following table is a project funding schedule for water supply capital improvements resulting from this year's priority process and financial analysis. Detailed information for each project can be found in this document on the following pages in the order presented in this table. The chart also identifies partially funded projects and estimated unspent appropriation from FY 2014-15.

Water Supply Capital Improvements

Project Number	PROJECT NAME	Through FY14	FY15	FY15 Unspent	FY16	FY17	FY18	FY19	FY20	FY21-30	TOTAL
	STORAGE FACILITY										
91854001	Almaden Dam Improvements	6,147	1,213	8	2,678	2,579	19,351	10,953	11,219	5,562	59,702
91864005	Anderson Dam Seismic Retrofit (C1)	23,770	6,460	362	1,006	21,091	52,218	56,287	39,243	-	200,075
91084020s	Calero and Guadalupe Dams Seismic Retrofits	6,796	7,270	1,484	3,566	6,300	19,051	48,744	10,777	-	102,504
91234011	Coyote Pumping Plant Warehouse	-	610	-	297	2,316	-	-	-	-	3,223
91084019	Dam Seismic Stability Evaluation	12,288	6,524	2,104	-	-	-	416	608	633	20,469
91954001	Pacheco Pumping Plant ASD Replacement	19,578	-	4	22	11	-	-	-	-	19,611
91214010s	Small Capital Improvements, San Felipe Reach 1-3	n/a	1,558	-	1,627	6,445	562	1,275	-	27,825	39,292
91C40376	Vasona Pumping Plant Upgrade	-	-	-	-	1,449	1,789	18,395	85	-	21,718
	TRANSMISSION FACILITY										
95084001	5-Year Pipeline Rehabilitation	8,568	5,794	887	7,981	4,823	-	-	-	-	27,166
92404003	Alamitos Diversion Dam Improvements	838	-	1	-	1,013	1,442	-	-	-	3,293
92484003	Coyote Diversion Dam Improvements	323	-	1	-	119	1,325	827	-	-	2,594
26C40349	IRP2 Additional Line Valves (A3)	-	-	-	-	-	-	-	-	13,911	13,911
26564001	Main & Madrone Pipelines Restoration (A1)	-	630	-	1,177	10,869	133	-	-	-	12,809
92144001	Pacheco/Santa Clara Conduit Right of Way Acquisition	964	178	132	-	1,529	342	111	-	-	3,124
94384002s	Penitencia Delivery Main/Force Main Seismic Retrofit	1,895	2,172	358	14,373	2,897	89	-	-	-	21,426
92374005	SCADA Remote Architecture & Communications Upgrade	370	-	342	32	389	405	643	852	4,501	7,192
92764009	Small Capital Improvements, Raw Water Transmission	n/a	468	-	38	158	119	-	55	3,575	4,413
94764006	Small Capital Improvements, Treated Water Transmission	n/a	-	-	-	58	-	88	-	-	146
92C40357	TC HCP Implementation Fund	-	-	-	-	4,739	4,379	14,691	14,690	106,609	145,108
	TREATMENT FACILITY										
93084011	Fluoridation at WTPs	357	850	-	5,327	1,227	-	-	-	-	7,761
93504001	Infrastructure Reliability	1,699	474	262	280	-	-	-	-	-	2,453
93764003	IRP2 WTP Ops Bldgs Seismic Retrofit	13,792	5,894	3,424	706	960	-	-	-	-	21,352
93234043	PWTP Clearwell Recoating & Repair	1,594	2,922	3,270	303	578	-	-	-	-	5,397
93234042	PWTP Water Pumps Modification	3,036	151	2,217	-	236	361	-	-	-	3,784
93294051	RWTP FRP Residuals Management Modifications	24,984	1,038	1,018	74	254	-	-	-	-	26,350
93294057	RWTP Reliability Improvement	19,113	46,394	39,750	6,002	45,036	44,812	45,139	46,734	152	253,382
93294056	RWTP Treated Water Valves Upgrade	7,945	130	299	294	76	-	-	-	-	8,445
93764004	Small Capital Improvements, Water Treatment	n/a	2,175	-	3,509	3,420	1,480	3,511	3,520	31,151	48,766
	RECYCLED WATER FACILITY										
91304001s	Recycled Water Facilities' Expansion	-	1,500	-	16,500	-	-	16,030	16,832	523,605	574,467
91184008	Silicon Valley Advanced Water Purification Center	70,073	6,326	-	520	141	-	-	-	-	77,060
91094007s	South County Recycled Water Pipeline	14,803	8,392	3,765	4,589	3,685	145	-	-	-	31,614
91244001	Wolfe Road Recycled Water Pipeline	800	9,808	8,790	6,563	720	-	-	-	-	17,891
	TOTAL	239,733	118,931	68,478	77,464	123,118	148,003	217,110	144,615	717,524	1,786,498

FY 2014-15 Funds to be reappropriated

Water Supply Capital Improvements

The following table shows funding requirements from each funding source for water supply capital.

Water Supply - Funding Source ($K)

Fund Number	FUND NAME	Through FY14	FY15	FY15 Unspent	FY16	FY17	FY18	FY19	FY20	FY21-30	TOTAL
61	Water Utility Enterprise Fund	239,733	118,931	68,478	77,464	123,118	148,003	217,110	144,615	703,613	1,772,587
26	Safe, Clean Water and Natural Flood Protection Fund	-	-	-	-	-	-	-	-	13,911	13,911
	TOTAL	239,733	118,931	68,478	77,464	123,118	148,003	217,110	144,615	717,524	1,786,498

FY 2014-15 Funds to be reappropriated

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Project	**Almaden Dam Improvements**
Program	Water Supply – Storage
Priority No.	40
Project No.	91854001
District Contact	Katherine Oven koven@valleywater.org

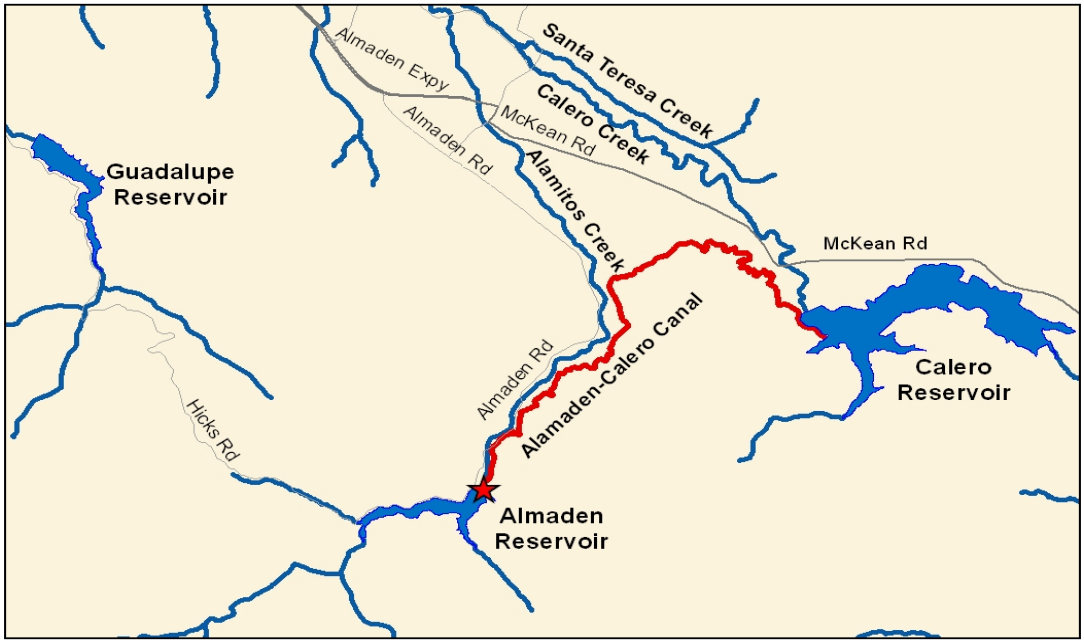
Aerial view of Almaden Dam and spillway, with a portion of the reservoir

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to the Almaden Dam Outlet Works to accomplish the following objectives:

- Modify or construct a new intake structure, capable of releasing 246 cubic feet-per-second (cfs) of water without flushing of sediments through the outlet works.
- Correct existing problems with the outlet energy dissipation structure, piping and valves.
- Restore operational capacity to the Almaden-Calero Canal and stabilize and improve maintenance access.

PROJECT LOCATION

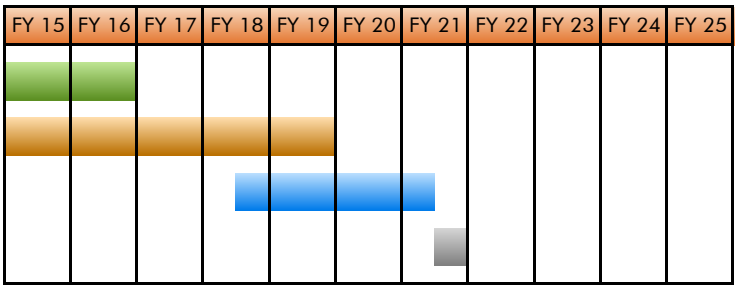


Project Location

SCHEDULE & STATUS

July 1995 to June 2021

Phase	Cost
Plan	6,856
Design	6,026
Construct	39,685
Closeout	302
	52,869



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
91854001-Almaden Dam Improvements	4,560	2,792	2,686	2,384	16,095	10,815	8,135	5,402	52,869
with inflation	4,560	2,792	2,686	2,579	19,351	10,953	11,219	5,562	59,702

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
91854001-Almaden Dam Improvements	6,147	1,213	8	2,678	2,579	19,351	10,953	11,219	5,562	59,702

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	59,702
Other Funding Source	0
Total	**59,702**

OPERATING COST IMPACTS

The completion of this project is anticipated to decrease operating costs by approximately $2,000 per year, beginning in FY 2022. Manually flushing the control valves during the winter months to remove silt will no longer be required.

USEFUL LIFE: 50+ Years

Project	**Anderson Dam Seismic Retrofit**
Program	Water Supply – Storage
Priority No.	97
Project No.	91864005
District Contact	Katherine Oven koven@valleywater.org

Aerial view of Anderson Dam and spillway, with a portion of the reservoir

PROJECT DESCRIPTION

This project plans, designs, and constructs seismic retrofit or replacement of outlet works at Anderson Dam, pending completion of a field investigation that will determine whether the Coyote Fault is determined to be "active." Seismic stability improvements will accomplish the following objectives:

- Resolve seismic stability deficiencies to ensure public safety.
- Restore lost reservoir storage capacity resulting from the operational restriction issued by Division of Safety of Dams (DSOD).
- Resolve the DSOD/FERC (Federal Energy Regulatory Commission) requirements in a timely manner.

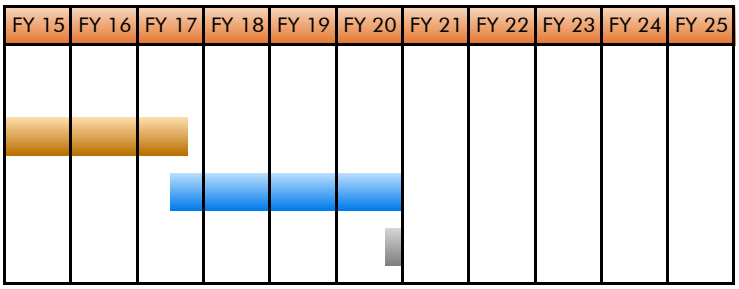
PROJECT LOCATION

★ Project Location

SCHEDULE & STATUS

January 2011 to December 2020

Phase	Cost
Plan	9,313
Design	12,087
Construct	148,100
Closeout	200
	169,700



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
91864005-Anderson Dam Seismic Retrofit	22,567	7,301	1,368	19,500	36,000	56,100	39,200	0	182,036
with inflation	22,567	7,301	1,368	21,091	52,218	56,287	39,243	0	200,076

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
91864005-Anderson Dam Seismic Retrofit	23,770	6,460	362	1,006	21,091	52,218	56,287	39,243	0	200,076

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	133,023
SCVWD Safe Clean Water Fund	67,053
Total	200,076

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 50+ Years

Project Calero and Guadalupe Dams Seismic Retrofits
Program Water Supply - Storage **Priority No.** 92
District Contact Katherine Oven koven@valleywater.org **Project No.** 91084020s

Aerial view of the Calero Dam and reservoir

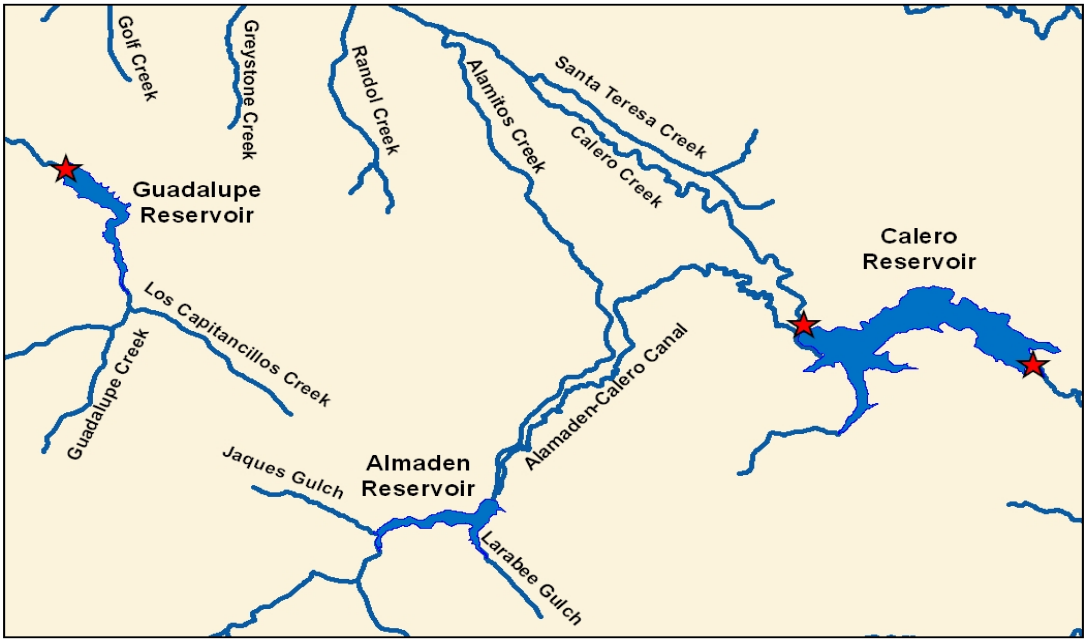
Areial view of the Guadalupe Dam, spillway, and part of the reservoir

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to the Calero and Guadalupe Dams to accomplish the following objectives:

- Stabilize the Calero and Guadalupe Dams' embankments for the maximum credible earthquake, possibly modify or replace the outlet works, and possibly modify the spillway to increase freeboard during a Probable Maximum Flood (PMF) event.
- Modify Fellows Dike to optimize the water utility benefits of Calero Reservoir in a cost-effective manner while considering stakeholder interests consistent with District policies.

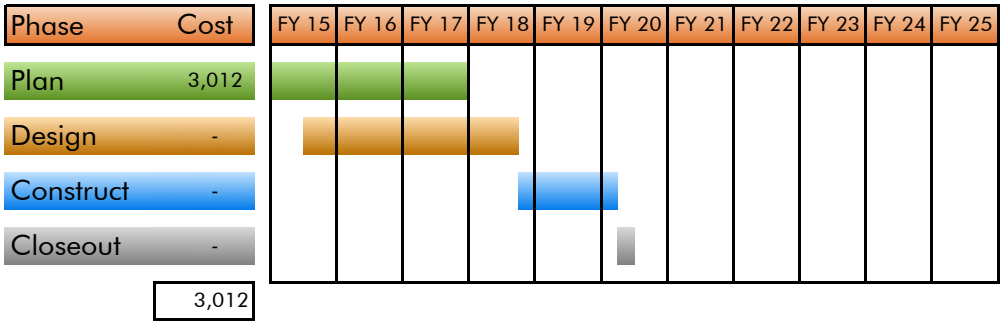
PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

July 2012 to October 2019



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
91084020 - Calero and Guadalupe Dams Seismic Retrofits-Planning	6,283	400	437	193	0	0	0	0	7,313
with inflation	6,283	400	437	209	0	0	0	0	7,329
91874004 - Calero Dam Seismic Retrofit-Design & Construct	0	5,875	1,055	1,155	9,700	42,560	8,140	0	68,485
with inflation	0	5,875	1,055	1,249	16,639	42,995	8,621	0	76,434
91894002 - Guadalupe Dam Seismic Retrofit-Design & Construct	0	24	3,411	4,613	1,425	5,640	2,035	0	17,148
with inflation	0	24	3,411	4,989	2,412	5,749	2,156	0	18,740
TOTAL	**6,283**	**6,299**	**4,903**	**5,961**	**11,125**	**48,200**	**10,175**	**0**	**92,946**
with inflation	**6,283**	**6,299**	**4,903**	**6,447**	**19,051**	**48,743**	**10,777**	**0**	**102,503**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
91084020 - Calero and Guadalupe Dams Seismic Retrofits-Planning	6,796	7,171	7,284	0	0	0	0	0	0	13,967
91874004 - Calero Dam Seismic Retrofit-Design & Construct	0	6,775	900	155	1,249	16,639	42,995	8,621	0	76,434
91894002 - Guadalupe Dam Seismic Retrofit-Design & Construct	0	24	0	3,411	4,989	2,412	5,749	2,156	0	18,740
TOTAL	**6,796**	**13,970**	**8,184**	**3,566**	**6,239**	**19,051**	**48,743**	**10,777**	**0**	**109,142**

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	109,142
Other Funding Source	0
Total	**109,142**

OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined during the planning phase.

USEFUL LIFE: 50 Years

Project	**Coyote Pumping Plant Warehouse**
Program	Water Supply - Storage
Priority No.	23
Project No.	91234011
District Contact	Katherine Oven koven@valleywater.org

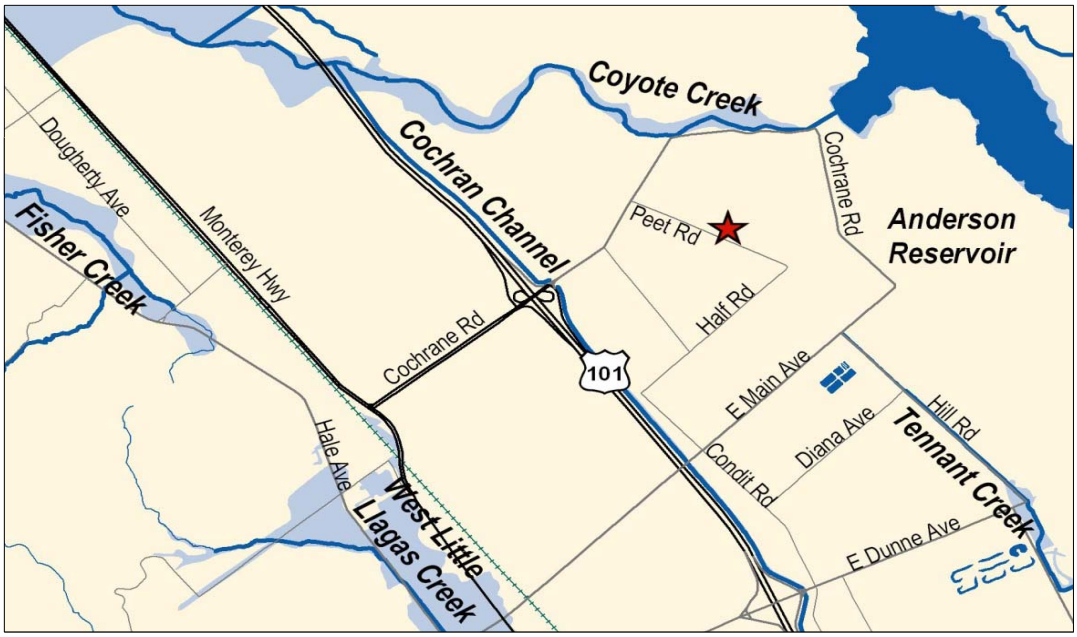
Existing storage containers being used to secure equipment and spare parts

PROJECT DESCRIPTION

This project plans, designs, and constructs the Coyote Pumping Plant Warehouse to accomplish the following objectives:

- Provide suitable storage space for pipeline spare parts and appurtenances to protect such materials from weather.
- Improve District's staff efficiency and effectiveness in pipeline maintance work.

PROJECT LOCATION

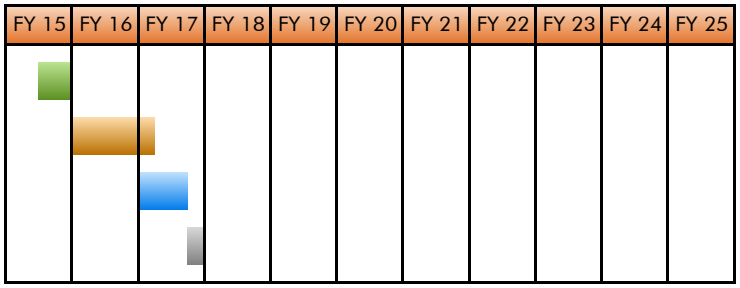


★ Project Location

SCHEDULE & STATUS

July 2014 to June 2017

Phase	Cost
Plan	610
Design	302
Construct	2,076
Closeout	60
	3,048



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
91234011-Coyote Pumping Plant Warehouse	0	610	297	2,141	0	0	0	0	3,048
with inflation	0	610	297	2,316	0	0	0	0	3,223

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
91234011-Coyote Pumping Plant Warehouse	0	610	0	297	2,316	0	0	0	0	3,223

Adjusted Budget includes adopted budget plus a planned budget adjustment of $194,000.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	3,223
Other Funding Sources	0
Total	**3,223**

OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined upon completion of the planning study.

USEFUL LIFE: 50 years

Project	**Dam Seismic Stability Evaluations**
Program	Water Supply – Storage
Priority No.	100
Project No.	91084019
District Contact	Frank Maitski fmaitski@valleywater.org

Field exploration for seismic stability evaluations

PROJECT DESCRIPTION

This project conducts preliminary planning (seismic stability evaluation) for 9 dams (shown on the map) to accomplish the following objectives:

- Address seismic stability issues.
- Provide for public safety.
- Ensure operational availability of reservoirs.
- Address protection of the assets.

Site specific planning, design, and construction of dam seismic stability improvements will be funded separately. This project funds preliminary planning (seismic stability evaluation, to determine the need for seismic stability improvements) for eight dams. The seismic stability evaluation for Anderson Dam was completed in a separate project. The seismic analysis for Almaden, Calero, Guadalupe, Lenihan, and Stevens Creek Dams has been completed. The analysis for Coyote, Chesbro and Uvas is continuing through 2020.

PROJECT LOCATION

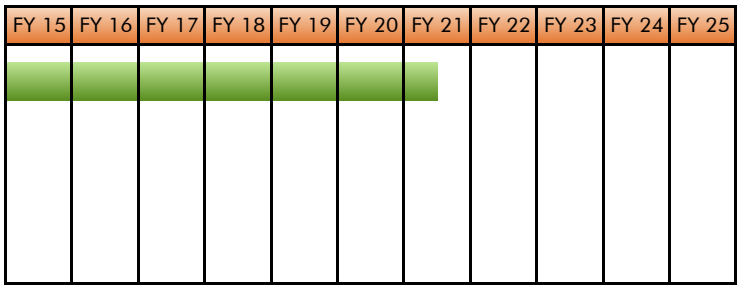
★ Project Location

SCHEDULE & STATUS

August 2009 to December 2020

(Planning Phase Only)
Planning Study Report will take 5 years to complete, starting in FY15

Phase	Cost
Plan	20,040
Design	-
Construct	-
Closeout	-
	20,040



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
91084019-Dam Seismic Stability Evaluations	7,708	9,000	832	500	500	500	500	500	20,040
with inflation	7,708	9,000	832	541	562	585	608	633	20,469

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
91084019-Dam Seismic Stability Evaluations	12,288	6,524	2,104	0	0	0	416	608	633	20,469

Adjusted Budget includes adopted budget plus approved budget adjustments

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	20,469
Other Funding Source	0
Total	20,469

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 50+ Years

Project	**Pacheco Pumping Plant ASD Replacement**
Program	Water Supply – Storage
Priority No.	80
Project No.	91954001
District Contact	Katherine Oven koven@valleywater.org

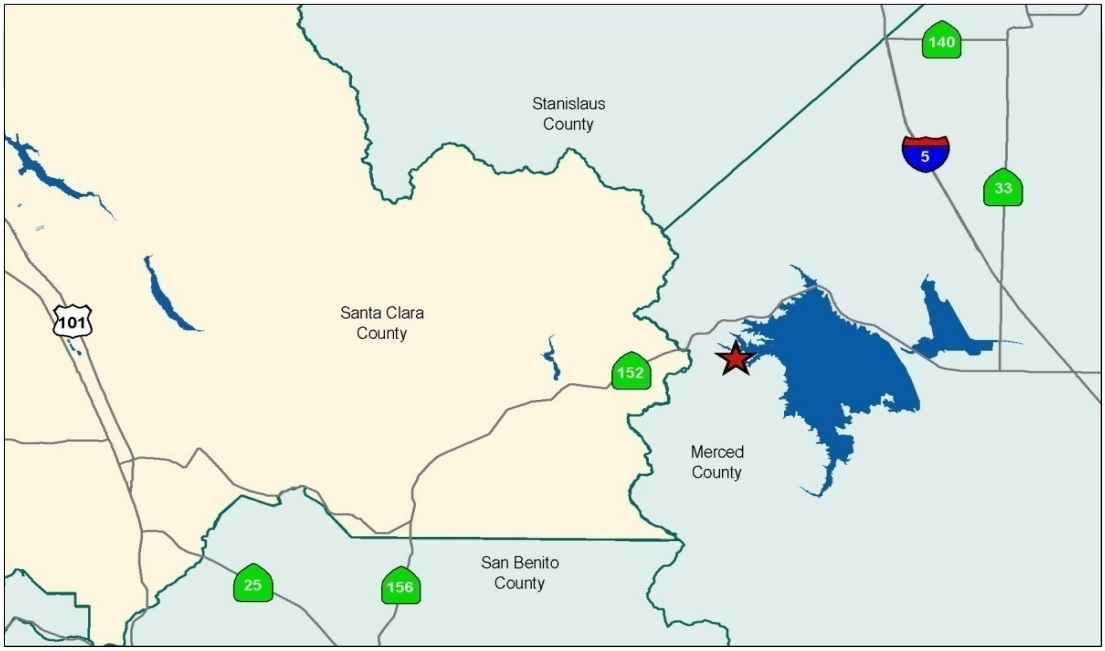
Removing the motor from one of the 12 pumps at Pacheco Pumping Plant

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to replace the existing adjustable speed drives (ASDs) and ancillary equipment at Pacheco Pumping Plant to accomplish the following objectives:

- Improve plant operation and reliability.
- Reduce operation and maintenance costs.

PROJECT LOCATION



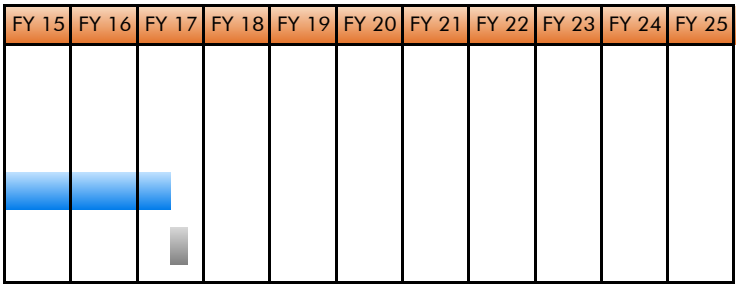
★ Project Location

SCHEDULE & STATUS

July 2003 to February 2017

Planning phase is complete.
Design phase is complete.

Phase	Cost
Plan	797
Design	1,382
Construct	17,366
Closeout	65
	19,610



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
91954001-Pacheco Pumping Plant ASD Replacement	19,524	50	24	12	0	0	0	0	19,610
with inflation	19,524	50	24	13	0	0	0	0	19,611

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
91954001-Pacheco Pumping Plant ASD Replacement	19,578	0	4	22	11	0	0	0	0	19,611

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	15,534
San Benito County Water District	4,077
Total	19,611

OPERATING COST IMPACTS

The completion of this project is anticipated to decrease operating costs by approximately $13,000 beginning in FY 2016 over the first 5 years, as new equipment will require less maintenance.

USEFUL LIFE: 10 – 15 Years

Project	**Small Capital Improvements, San Felipe**
Program	Water Supply – Storage
Priority No.	66
Project No.	91214010s
District Contact	Angela Cheung acheung@valleywater.org

Suction wear ring bacterial corrosion of Impeller. Similar rehabilitation projects will be done in this project.

PROJECT DESCRIPTION

This project provides resources for the improvement of small capital investments that replace or extend the lifetime of an asset. This project implements a systematic approach to equipment replacement and renewal at facilities contained within San Felipe Division by designing and constructing improvements identified through the District's 10-year asset management program. Infrastructure within this project includes tunnels, large diameter pipelines and valve structures, pumps and associated equipment, as well as a large above ground storage tank. The Reach 1 renewal and replacement activities are conducted in coordination and cooperation with San Felipe Division Reach 1 contractors, partner cities, and other agencies. Planned projects for FY 2016 include:

- 91214010–Reach 1: Implementation of the Process Control Systems (SCADA) Master Plan; SCADA Firewall Replacement; Install 4 Rectifiers on Pacheco Conduit for corrosion protection; Replace Pacheco Pumping Plant HVOC control center; PSV-BIF 120 in remote Eddy Field Current Inspection for PCCP pipe; Pacheco Conduit - review & survey corrosion protection, soil resistivity verification survey, feasibility and design; Pipeline rehab.
- 91224010–Reach 2: Santa Clara Tunnel Leakage/Pachecon Conduit Dewatering
- 91234010–Reach 3: First of three Board directed in-conduit recovery projects located in Raw Water Systems. All three projects have positive NPV saving at feasibility study phase subject to design phase validation.

PROJECT LOCATION

Project Location

SCHEDULE & STATUS

This project is part of a regularly scheduled 10-year maintenance and asset management program.

Traditional planning, design, and construction phases do not apply.

Phase	Cost
Plan	n/a
Design	n/a
Construct	n/a
Closeout	n/a
	28,211

FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
91214010-Small Capital Improvements, San Felipe Reach 1	n/a	12	1,412	1,015	500	780	0	5,277	8,996
with inflation	n/a	12	1,412	1,098	562	912	0	8,370	12,367
91224010-Small Capital Improvements, San Felipe Reach 2	n/a	0	180	0	0	0	0	0	180
with inflation	n/a	0	180	0	0	0	0	0	180
91234010-Small Capital Improvements, San Felipe Reach 3	n/a	1,547	35	4,944	0	310	0	12,199	19,035
with inflation	n/a	1,547	35	5,347	0	363	0	19,455	26,747
TOTAL	**0**	**1,559**	**1,627**	**5,959**	**500**	**1,090**	**0**	**17,476**	**28,211**
with inflation	**0**	**1,559**	**1,627**	**6,445**	**562**	**1,275**	**0**	**27,825**	**39,294**

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
91214010-Small Capital Improvements, San Felipe Reach 1	n/a	11	0	1,412	1,098	562	912	0	8,370	12,366
91224010-Small Capital Improvements, San Felipe Reach 2	n/a	0	0	180	0	0	0	0	0	180
91234010-Small Capital Improvements, San Felipe Reach 3	n/a	1,547	0	35	5,347	0	363	0	19,455	26,747
TOTAL	**0**	**1,558**	**0**	**1,627**	**6,445**	**562**	**1,275**	**0**	**27,825**	**39,293**

Adjusted Budget includes adopted budget plus approved budget adjustments. Small Capital Improvement projects do not carry forward unspent funds from one fiscal year to the next. Unspent funds are returned to fund reserves at the close of each fiscal year and new funding is provided in the next fiscal year.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	36,427
San Benito County Water District	2,865
Total	**39,293**

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

Project	**Vasona Pumping Plant Upgrades**
Program	Water Supply – Storage
Priority No.	71
Project No.	91C40376
District Contact	Katherine Oven koven@valleywater.org

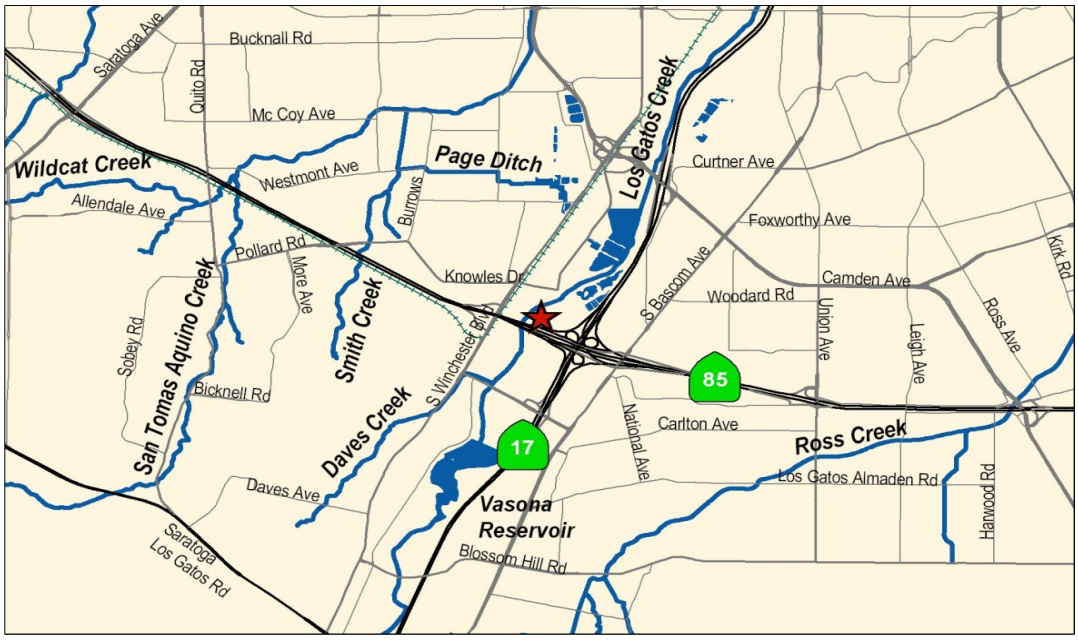
Vasona Pumping Plant Pump

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to the Vasona Pump Station, including replacing aging pumps, motors, drives, valves, actuators, and electrical and control systems that have reached the end of their useful life; and adding one redundant pump. The project will accomplish the following objectives:

- Eliminate the risk of failure by replacing assets that have reached the end of their useful life, including four pumps (two 200 horsepower, two 400 horsepower) and associated motors, drives, electrical and control systems, as well as pump discharge and suction valves and actuators.
- Increase operational flexibility and prepare for future capacity needs by adding one redundant pump and increasing the size of the two 200 horsepower pumps.

PROJECT LOCATION

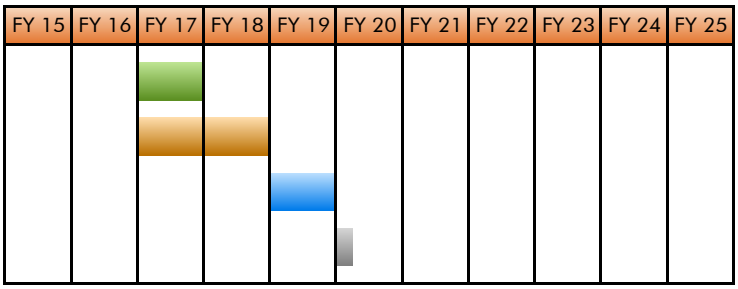


★ Project Location

SCHEDULE & STATUS

June 2015 to September 2019

Phase	Cost
Plan	570
Design	2,360
Construct	15,600
Closeout	70
	18,600



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
91C40376-Vasona Pumping Plant Upgrades	0	0	0	1,340	1,590	15,600	70	0	18,600
with inflation	0	0	0	1,449	1,789	18,395	85	0	21,718

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
91C40376-Vasona Pumping Plant Upgrades	0	0	0	0	1,449	1,789	18,395	85	0	21,718

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	21,718
Other Funding Sources	0
Total	21,718

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $70,000 per year beginning in FY 2021.

USEFUL LIFE: 50 years

Project	**5-Year Pipeline Rehabilitation**
Program	Water Supply – Transmission
Priority No.	56
Project No.	95084001
District Contact	Frank Maitski fmaitski@valleywater.org

A typical line valve assembly to be rehabilitated

PROJECT DESCRIPTION

This project plans, designs, and constructs major repairs and improvements to the District's pipelines and tunnels to accomplish the following objectives:

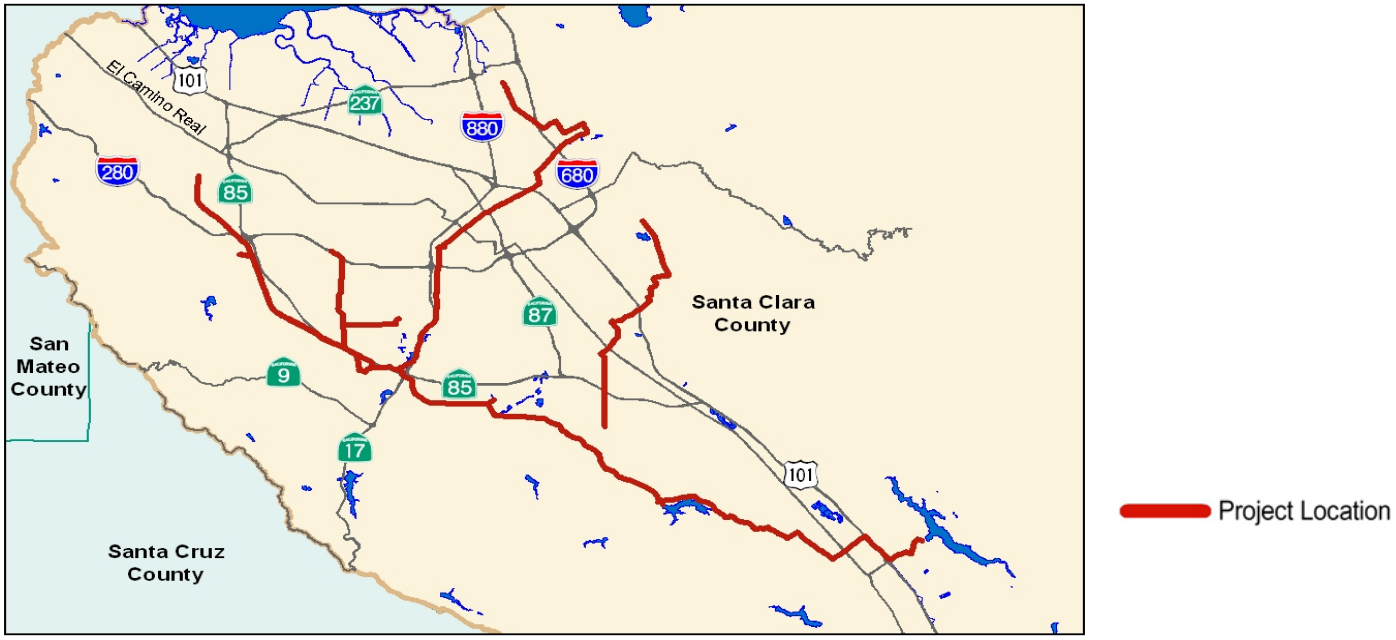
- Perform internal inspections, maintenance, and repair activities as required.
- Replace old valves, flow meters, pipeline appurtenance assemblies, and piping as approprate.
- Upgrade pipeline air valve venting in accordance with CA Department of Public Health (CDPH) guidelines.
- Modify failure prone pipeline appurtenance connections.

This project funds inspection and rehabilitation work along the various pipelines and tunnels as identified below:

- 2016: Snell Pipeline Rehabilitation Project Phase III
- 2017: West Pipeline Inspection and Rehabilitation Project

The project also funds the development of the Pipeline Maintenance Program document for Fiscal Years 2018 to 2027 and CEQA/NEPA documenation and permit acquisitions.

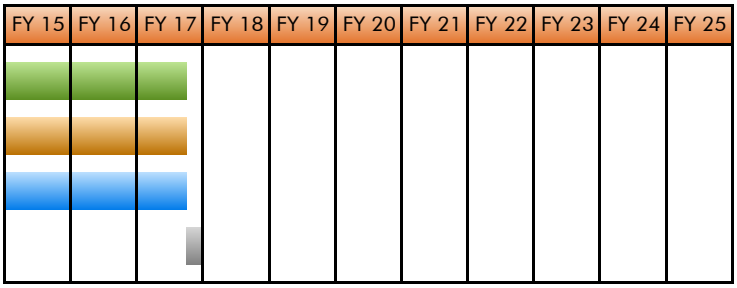
PROJECT LOCATION



SCHEDULE & STATUS

July 2012 to June 2017

Phase	Cost
Plan	1,951
Design	4,066
Construct	19,878
Closeout	40
	25,935



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
95084001-5-Year Pipeline Rehabilitation	8,681	4,794	8,868	4,476	0	0	0	0	26,819
with inflation	8,681	4,794	8,868	4,823	0	0	0	0	27,166

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
95084001-5-Year Pipeline Rehabilitation	8,568	5,794	887	7,981	4,823	0	0	0	0	27,166

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	27,166
Other Funding Sources	0
Total	27,166

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

Project	**Alamitos Diversion Dam Improvements**
Program	Water Supply – Transmission
Priority No.	72
Project No.	92404003
District Contact	Melanie Richardson mrichardson@valleywater.org

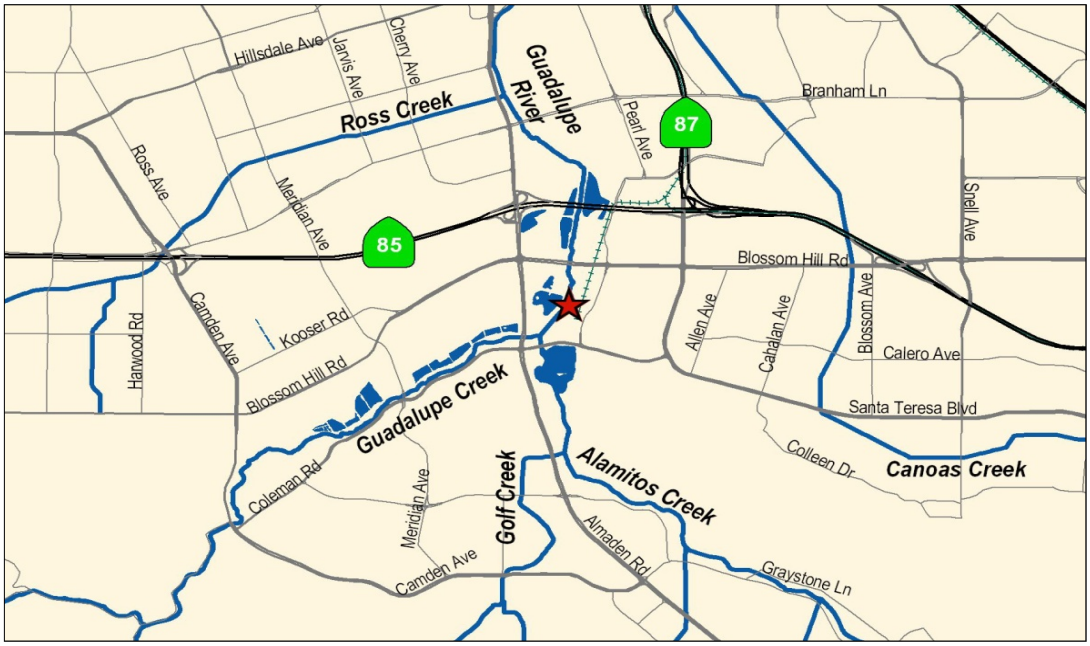
Future location of Alamitos Diversion Dam on Guadalupe River

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements at Alamitos Diversion Dam on the Guadalupe River, about 1,300 feet upstream of Blossom Hill Road in San Jose, to accomplish the following objectives:

- Preserve existing water rights.
- Improve staff safety by minimizing exposure of staff to a potentially hazardous environment.
- Perform operations and maintenance in a more environmentally sensitive manner.

PROJECT LOCATION



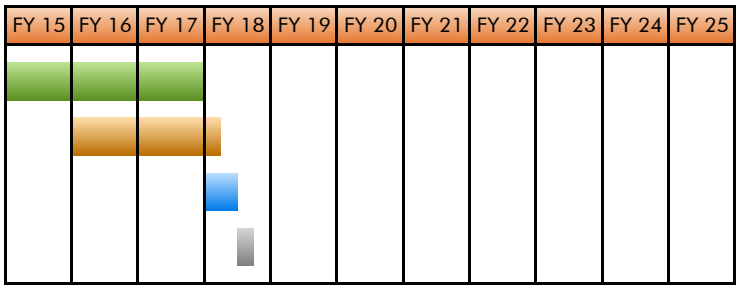
★ Project Location

SCHEDULE & STATUS

August 2006 to March 2018

Planning and Design schedules are extended to coordinate with the Three Creeks Habitat Conservation Plan.

Phase	Cost
Plan	960
Design	228
Construct	1,860
Closeout	15
	3,063



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
92404003-Alamitos Diversion Dam Improvements	836	1	1	943	1,282	0	0	0	3,063
with inflation	836	1	1	1,013	1,442	0	0	0	3,293

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
92404003-Alamitos Diversion Dam Improvements	838	0	1	0	1,013	1,442	0	0	0	3,293

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	3,293
Other Funding Source	0
Total	3,293

OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined during the design phase.

USEFUL LIFE: 50+ Years

Project	**Coyote Diversion Dam Improvements**
Program	Water Supply – Transmission
Priority No.	72
Project No.	92484003
District Contact	Melanie Richardson mrichardson@valleywater.org

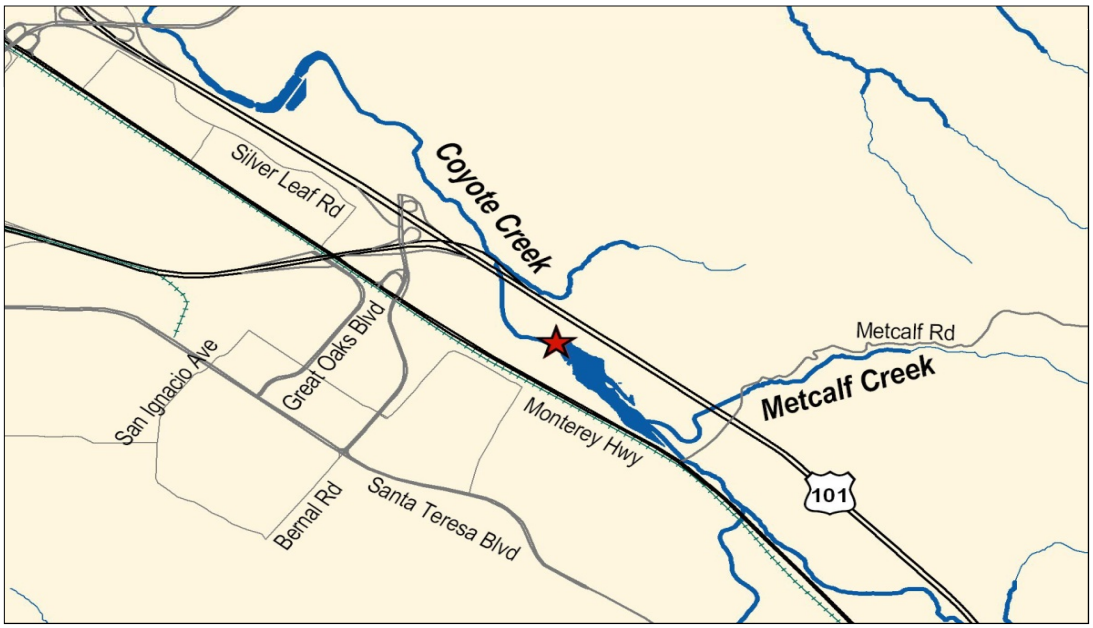
Steel Diversion Dam on Coyote Creek

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to the Coyote Steel Diversion Dam located on Coyote Creek, about 2,000 feet downstream of Metcalf Road, to accomplish the following objectives:

- Preserve existing water rights.
- Improve staff safety associated with the removal and installation of the dam.
- Streamline flood prevention and operating procedures for removal and installation of the dam.

PROJECT LOCATION

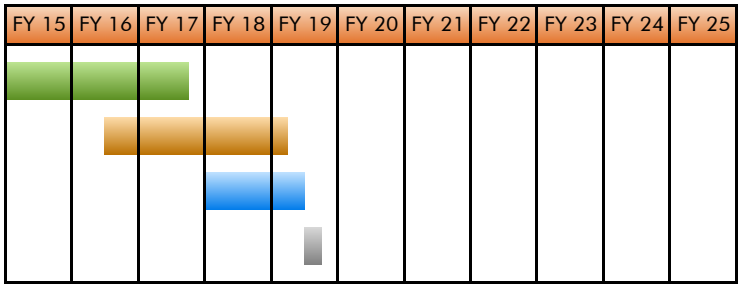


★ Project Location

SCHEDULE & STATUS

July 2007 to January 2019

Phase	Cost
Plan	331
Design	160
Construct	1,805
Closeout	15
	2,311



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
92484003-Coyote Diversion Dam Improvements	321	1	1	110	1,178	700	0	0	2,311
with inflation	321	1	1	119	1,325	827	0	0	2,594

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
92484003-Coyote Diversion Dam Improvements	323	0	1	0	119	1,325	827	0	0	2,594

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	2,594
Other Funding Source	0
Total	**2,594**

OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be available upon completion of the planning study.

USEFUL LIFE: 50+ Years

Project	**IRP2 Additional Line Valves**
Program	Water Supply – Transmission
Priority No.	40
Project No.	26C40349
District Contact	Katherine Oven koven@valleywater.org

New line valves, actuators, and vaults similar to this will be installed along the East, West, and Snell pipelines

PROJECT DESCRIPTION

This project plans, designs, and constructs four additional line valves in the treated water distribution system, as defined in the Water Infrastructure Reliability Plan, Phase 2 (IRP2). The new line valves will be at various locations along the East, West, and Snell pipeline to accomplish the following objectives:

- Allow the district to isolate sections of the treated water pipeline to prevent water from bleeding out damaged sections following a major seismic event.
- Allow the network of emergency wells to operate, even when there is damage upstream and downstream of individual wells.

PROJECT LOCATION

★ Project Location

SCHEDULE & STATUS

July 2024 to June 2027

Phase	Cost
Plan	860
Design	1,038
Construct	7,418
Closeout	140
	9,457

FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
26C40349-IRP2 Additional Line Valves	0	0	0	0	0	0	0	9,457	9,457
with inflation	0	0	0	0	0	0	0	13,911	13,911

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
26C40349-IRP2 Additional Line Valves	0	0	0	0	0	0	0	0	13,911	13,911

FUNDING SOURCES

(in thousands $)

SCVWD Safe Clean Water Fund	13,911
Other Funding Source	0
Total	13,911

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not signifiantly alter the existing facilities or modes of operation.

USEFUL LIFE: 35 Years

Project **Main & Madrone Pipelines Restoration**
Program Water Supply - Transmission **Priority No.** 70
District Contact Katherine Oven koven@valleywater.org **Project No.** 26564001s

Main Avenue Ponds facing North

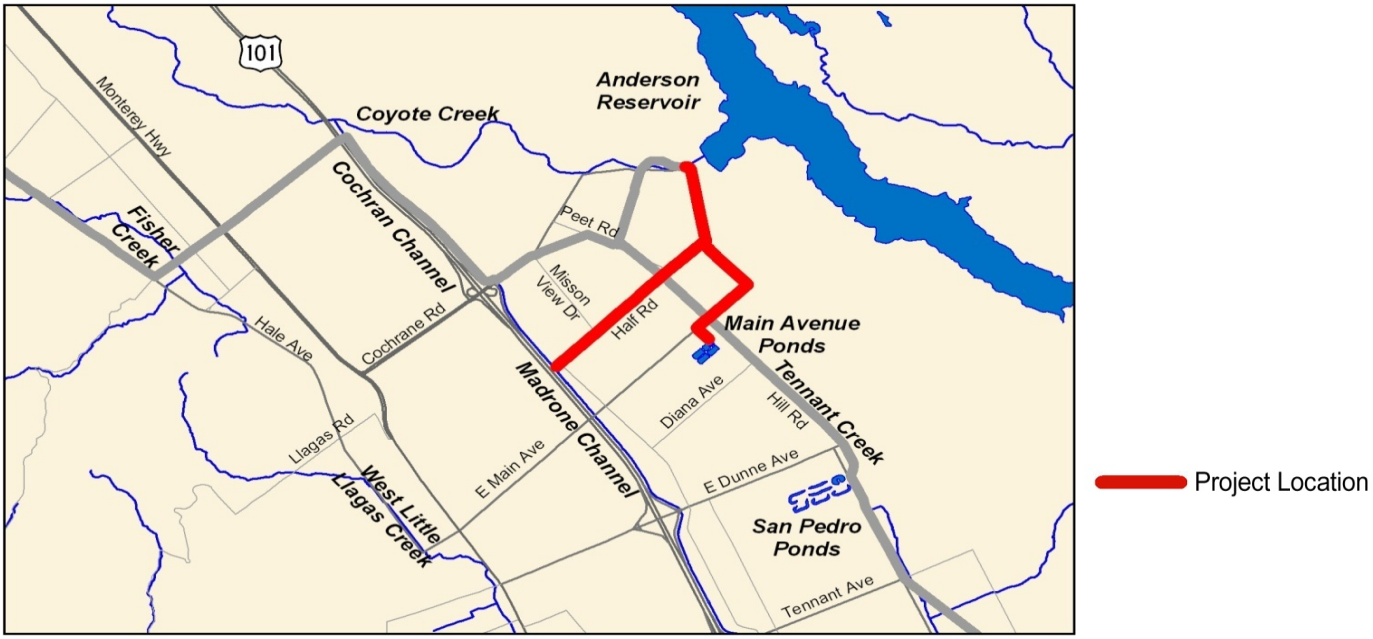
Madrone Pipeline Outlet into Madrone Channel looking North along Northbound Interstate 101

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements on the full length of the Madrone Pipeline and rehabilitates the Main Avenue Pipeline to accomplish the following objectives:

- Provide the means to utilize another reliable water source, (e.g. Anderson Reservoir) to supply water to the Main Avenue Ponds and the Madrone Channel.
- Allow for greater flows to the Main Avenue Ponds and the Madrone Channel.
- Maximize imported water flows to the treatment plants.

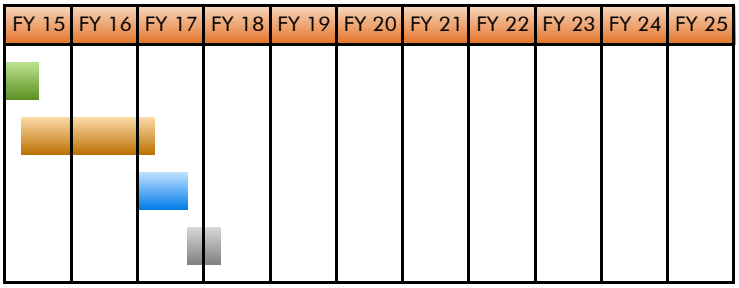
PROJECT LOCATION



SCHEDULE & STATUS

July 2014 to June 2017

Phase	Cost
Plan	431
Design	1,670
Construct	9,887
Closeout	68
	12,056



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
26564001-Main & Madrone Pipelines Restoration	0	630	1,177	10,131	118	0	0	0	12,056
with inflation	0	630	1,177	10,869	133	0	0	0	12,808

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
26564001-Main & Madrone Pipelines Restoration	0	630	0	1,177	10,869	133	0	0	0	12,808

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Safe, Clean Water Fund	8,300
SCVWD Water Utility Enterprise Fund	4,508
Total	12,808

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as it does not significantly alter the facility or modes of operation.

USEFUL LIFE: 40 Years

Project	**Pacheco/Santa Clara Conduit Right of Way Acquisition**
Program	Water Supply – Transmission
Priority No.	60
Project No.	92144001
District Contact	Katherine Oven koven@valleywater.org

Access to much of the San Felipe Division pipelines must currently be made through private property, due to a lack of easements, such as Bloomfield access at Vault 21-23.

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements related to the acquisition of right-of-way along the South County Pipeline to accomplish the following objectives:

- Provide unlimited access to District owned pipeline.
- Reduce conflicts with local land owners and improve response time for emergency repairs or operations.

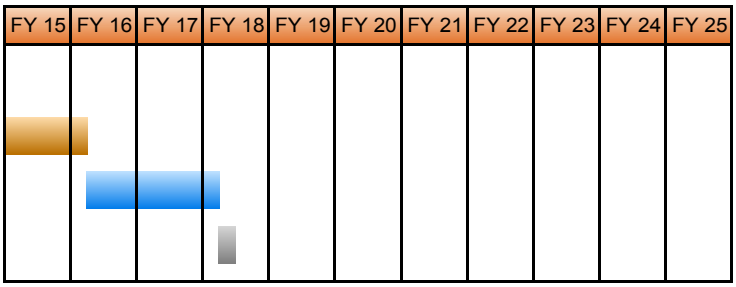
PROJECT LOCATION

Project Location

SCHEDULE & STATUS

July 2009 to December 2016

Phase	Cost
Plan	673
Design	1,561
Construct	617
Closeout	35
	2,886



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**FY20**	**Future**	
92144001-Pacheco/Santa Clara Conduit Right of Way Acquisition	980	30	1,493	304	95	0	0	0	2,902
with inflation	980	30	1,549	328	107	0	0	0	2,994

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY14**	**FY15**		**FY16**	**FY17**	**FY18**	**FY19**	**FY20**	**Future**	
92144001-Pacheco/Santa Clara Conduit Right of Way Acquisition	2,564	178	1,732	0	145	107	0	0	0	2,994

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	2,975
San Benito County Water District	19
Total	**2,994**

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $8,000 per year, beginning in FY 2019, for vegetation control and/or maintenance of fences, gates and locks for the access roads.

USEFUL LIFE: 15-20 Years

Project	**Penitencia Delivery Main/Force Main Seismic Retrofit**
Program	Water Supply – Transmission
Priority No.	84
Project No.	94384002s
District Contact	Katherine Oven koven@valleywater.org

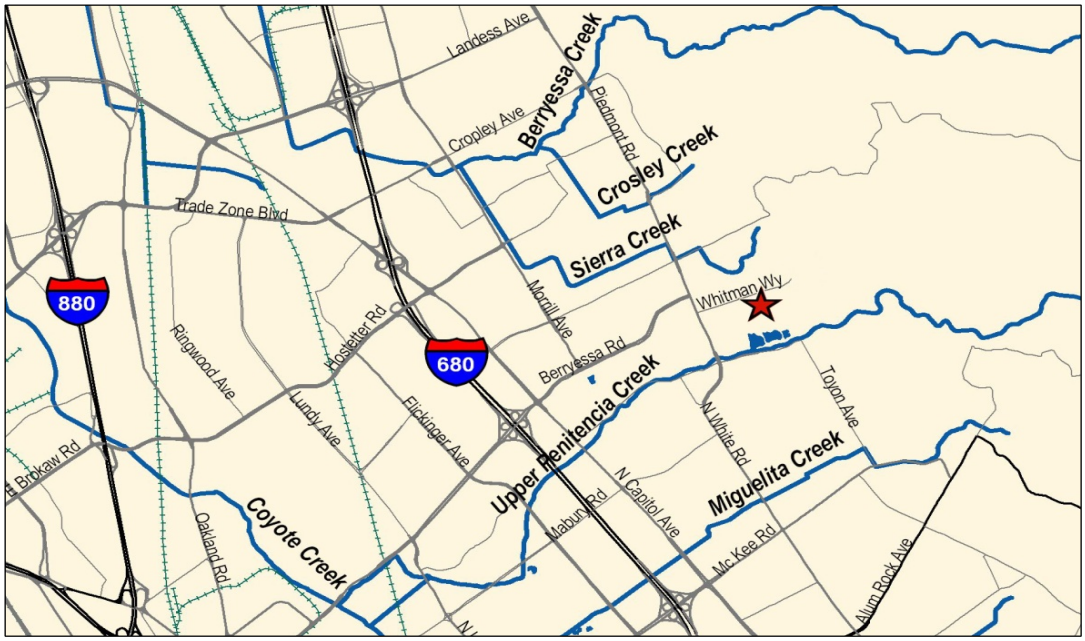
View of the Delivery Main for the Penitencia Water Treatment Plant

PROJECT DESCRIPTION

This project plans, designs, and constructs seismic improvements to the delivery main and force main junctions to prevent catastrophic failure due to an earthquake by accomplishing the following objectives:

- Perform a structural survey of the Penitencia Vault and Penitencia Delivery Main (PDM) Effluent Vault to ascertain the existing condition, their life expectancy, and whether any changes are necessary to accommodate the seismic retrofit project.
- Perform a seismic retrofit to the PDM, Penitencia Force Main (PFM), South Bay Aqueduct (SBA), and if necessary, the Penitencia and PDM Effluent Vaults to accommodate both the creeping and potentially extensive seismically-induced movements of the active landslide over a 50-year design life.

PROJECT LOCATION

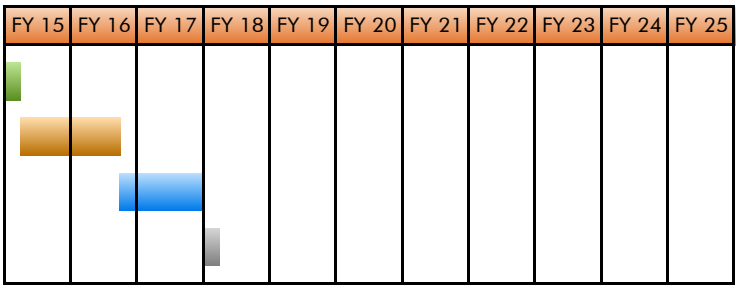


★ Project Location

SCHEDULE & STATUS

July 2012 to September 2017

Phase	Cost
Plan	1,295
Design	3,108
Construct	16,650
Closeout	20
	21,073



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
94384002-Penitencia Delivery Main Seismic Retrofit	647	808	4,977	825	28	0	0	0	7,285
with inflation	647	808	4,977	892	31	0	0	0	7,356
92224001-Penitencia Force Main Seismic Retrofit	653	1,601	9,754	1,854	52	0	0	0	13,914
with inflation	653	1,601	9,754	2,005	58	0	0	0	14,072
TOTAL:	1,300	2,409	14,731	2,679	80	0	0	0	21,199
Total with inflation	1,300	2,409	14,731	2,898	90	0	0	0	21,428

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
94384002-Penitencia Delivery Main Seismic Retrofit	946	839	330	4,647	892	31	0	0	0	7,356
92224001-Penitencia Force Main Seismic Retrofit	949	1,333	28	9,726	2,005	58	0	0	0	14,072
TOTAL	1,895	2,172	358	14,373	2,898	90	0	0	0	21,428

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

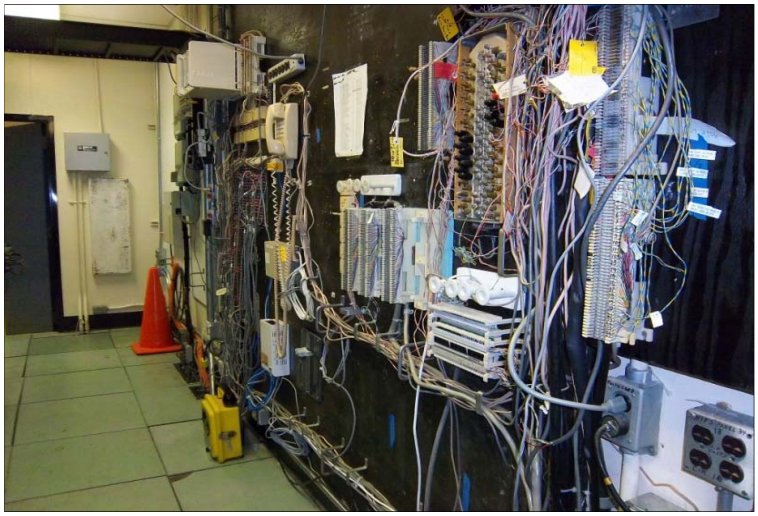
SCVWD Water Utility Enterprise Fund	21,428
Other Funding Source	0
Total	21,428

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

Project	**SCADA Remote Architecture and Communications Upgrade**
Program	Water Supply – Transmission
Priority No.	48
Project No.	92374005
District Contact	Katherine Oven koven@valleywater.org



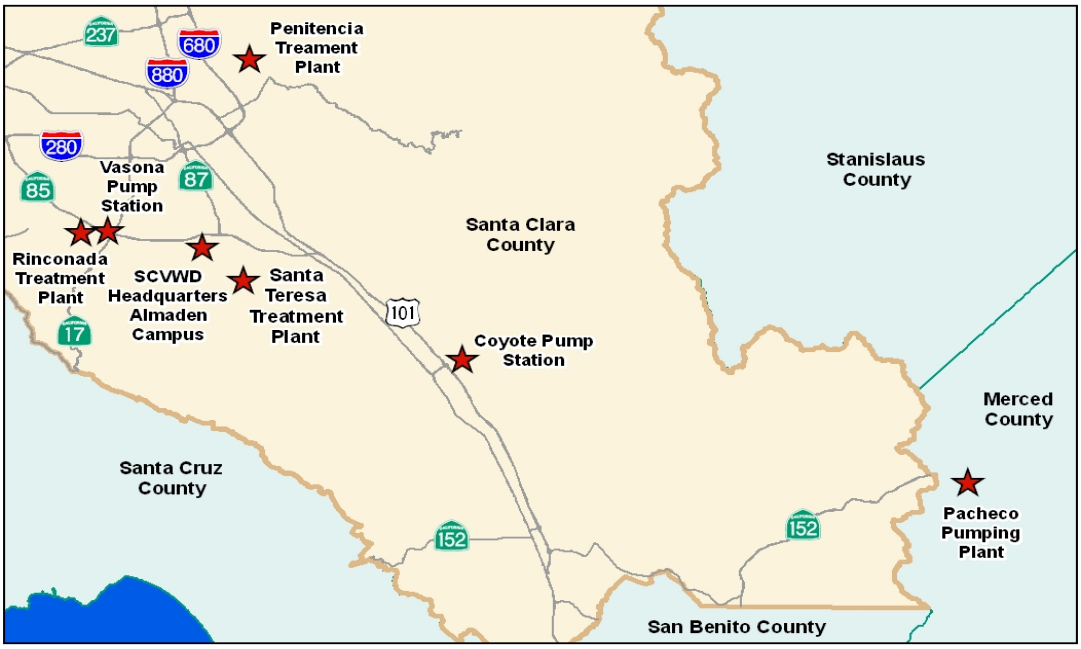
Raw Water Control Center Hub at Rinconada Water Treatment Plant similar to what will be installed at other facilities

PROJECT DESCRIPTION

This project plans, designs, and implements improvements to the back-up raw water control center and Process Control Systems (SCADA) telemetry to accomplish the following objectives:

- Complete the mobilizable raw water control center so it can be operated at any of the water treatment plants, pumping plants, or at District Headquarters/Almaden Campus.
- Upgrade the SCADA telemetry system to remove the single points of failure and to provide a robust and reliable telemetry system.

PROJECT LOCATION

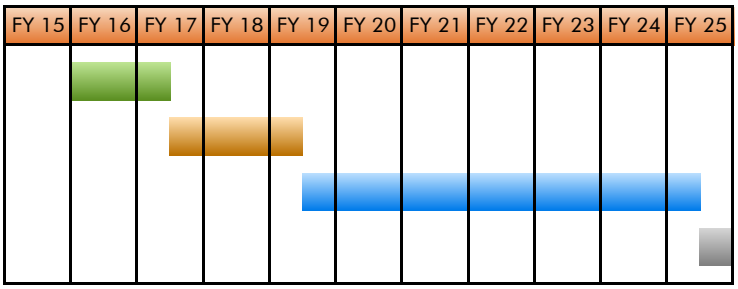


★ Project Location

SCHEDULE & STATUS

July 2015 to June 2025

Phase	Cost
Plan	562
Design	710
Construct	4,300
Closeout	100
	5,672



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
92374005-SCADA Remote Architecture and Communications Upgrade	28	0	374	360	360	550	700	3,300	5,672
with inflation	28	0	374	389	405	643	852	4,501	7,193

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
92374005-SCADA Remote Architecture and Communications Upgrade	370	0	342	32	389	405	643	852	4,501	7,193

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	7,193
Other Funding Source	0
Total	7,193

OPERATING COST IMPACTS

The completion of this project is anitcipated to increase operating costs by approximately $80,440 per year, beginning in FY 2025 for operational support provided by control technicians, IT technicians, and SCADA engineers.

USEFUL LIFE: 25 Years

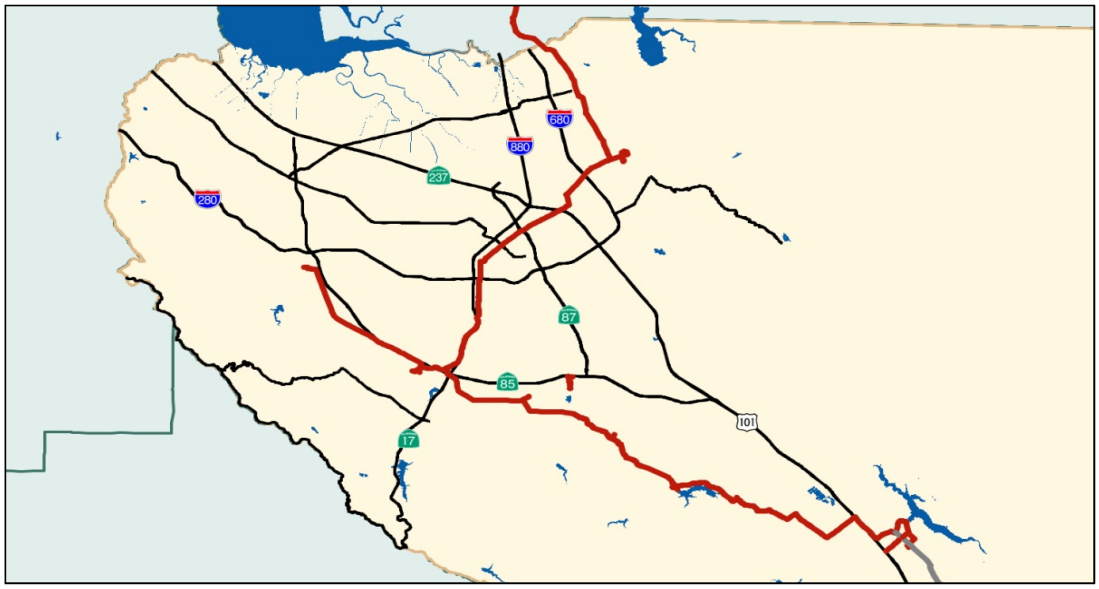
Project	**Small Capital Improvements, Raw Water Transmission**
Program	Water Supply – Transmission
Priority No.	72
Project No.	92764009
District Contact	Angela Cheung acheung@valleywater.org

Major repair and replacement of turnout roofs and similar small raw water capital projects will be done, per the asset management plan.

PROJECT DESCRIPTION

This project provides resources for the improvement of small capital investments that replace or extend the lifetime of an asset. This project will repair or rehabilitate various existing raw water distribution facilities. These activities include identifying and fixing corrosion problems, replacing valves and other appurtenances and modifying water recharge facilities to avoid failure of the raw water transmission system and extend the life of the infrastructure. This project is part of the District's 10-year asset management program. No activities planned for FY 2016.

PROJECT LOCATION



Project Location

SCHEDULE & STATUS

This project is part of a regularly scheduled 10-year maintenance and asset management program.

Traditional planning, design, and construction phases do not apply.

Phase	Cost
Plan	n/a
Design	n/a
Construct	n/a
Closeout	n/a
	n/a

FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
92764009-Small Capital Improvements, Raw Water Transmission	n/a	468	38	146	106	0	45	2,240	3,043
with inflation	n/a	468	38	158	119	0	55	3,575	4,413

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
92764009-Small Capital Improvements, Raw Water Transmission	n/a	468	0	38	158	119	0	55	3,575	4,413

Adjusted Budget includes adopted budget plus approved budget adjustments. Small Capital Improvement projects do not carry forward unspent funds from one fiscal year to the next. Unspent funds are returned to fund reserves at the close of each fiscal year and new funding is provided in the next fiscal year.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	4,413
Other Funding Source	0
Total	**4,413**

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

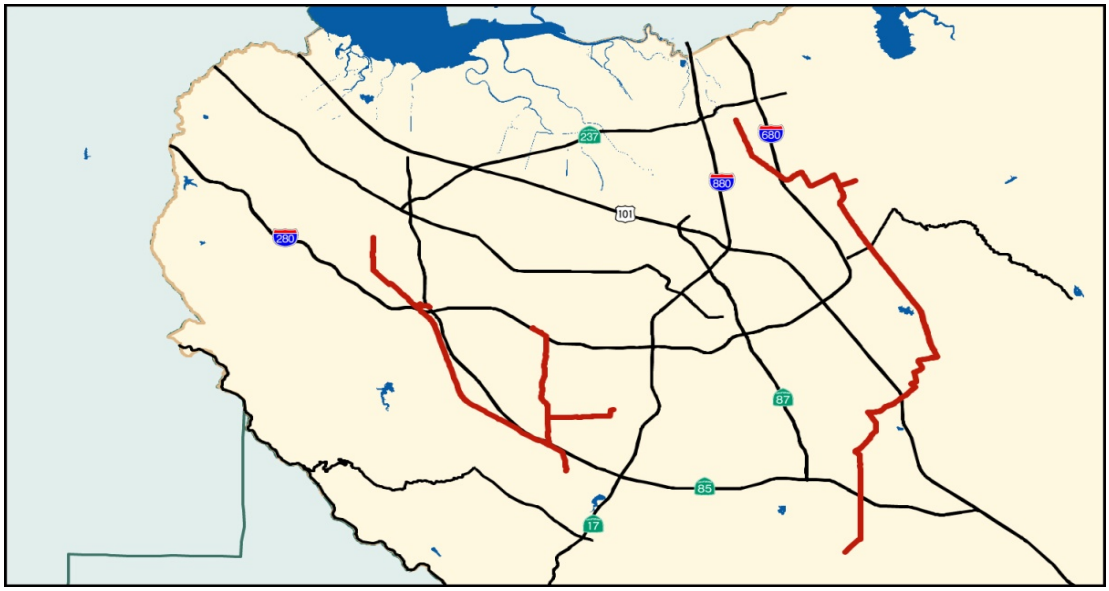
Project	**Small Capital Improvements, Treated Water Transmission**
Program	Water Supply – Transmission
Priority No.	65
Project No.	94764006
District Contact	Angela Cheung acheung@valleywater.org

Small Capital projects at treated water transmission facilities, similar to this new valve installation in the Piedmont Line Valve Vault, will be done, per the asset management plan.

PROJECT DESCRIPTION

This project provides resources for the improvement of small capital investments that replace or extend the lifetime of an asset. This project will repair or rehabilitate various existing treated water distribution facilities, such as identifying and treating corrosion problems, replacing valves and other appurtenances and repairing or adding turnouts to avoid failure of the treated water transmission system and to extend the life of the infrastructure. This project is part of the District's 10-year asset management program. No activities planned for FY 2016.

PROJECT LOCATION



Project Location

SCHEDULE & STATUS

This project is part of a regularly scheduled 10-year maintenance and asset management program.

Traditional planning, design, and construction phases do not apply.

Phase	Cost
Plan	n/a
Design	n/a
Construct	n/a
Closeout	n/a
	n/a

FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
94764006-Small Capital Improvements, Treated Water Transmission	n/a	0	0	54	0	75	0	0	129
with inflation	n/a	0	0	58	0	88	0	0	146

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
94764006-Small Capital Improvements, Treated Water Transmission	n/a	0	0	0	58	0	88	0	0	146

Adjusted Budget includes adopted budget plus approved budget adjustments. Small Capital Improvement projects do not carry forward unspent funds from one fiscal year to the next. Unspent funds are returned to fund reserves at the close of each fiscal year and new funding is provided in the next fiscal year.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	146
Other Funding Source	0
Total	146

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

Project	**TC HCP Implementation**
Program	Water Supply - Transmission
Priority No.	63
Project No.	92C40357
District Contact	Katherine Oven koven@valleywater.org

Fish habitats such as this will be developed for Habitat Conservation. Actual locations will differ.

PROJECT DESCRIPTION

This project funds habitat conservation projects to be implemented as part of the Three Creeks Habitat Conservation Plan (TC HCP). The Three Creeks HCP grew out of the 1996 Water Rights Complaint and subsequent Fish and Aquatic Habitat Conservation Effort (FAHCE). The capital project components of the conservation measures are likely to include projects such as: upgrades for operational adaptibility and flexibility; instream channel enhancements; new fish screens, and instream barrier removals. When implemented, the TC HCP currently under development will contain conservation measures designed to:

- Meet instream flows to support fish spawning, rearing and migration.
- Provide fish passages to accommodate annual migration.
- Improve instream habitat for steelhead.

PROJECT LOCATION

Project sites will be located at reservoirs and streams within the Three Creeks Project Area, in the Guadalupe, Coyote and Stevens Creek Watersheds. Project site locations are yet to be determined and no map is provided.

SCHEDULE & STATUS

July 2016 to June 2022

Phase	Cost
Plan	145,108
Design	-
Construct	-
Closeout	-
	145,108

FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
92C40357-TC HCP Implementation	0	0	0	4,739	4,379	14,691	14,690	106,609	145,108
with inflation	0	0	0	4,739	4,379	14,691	14,690	106,609	145,108

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
92C40357-TC HCP Implementation	0	0	0	0	4,739	4,379	14,691	14,690	106,609	145,108

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	145,108
Other Funding Source	0
Total	145,108

OPERATING COST IMPACTS

Operating cost impacts will vary, depending on the requirements for maintenance of each site. Once the sites have been identified, operating costs will be determined based on the existing conditions and maintenance identified for each site.

USEFUL LIFE: Not Available

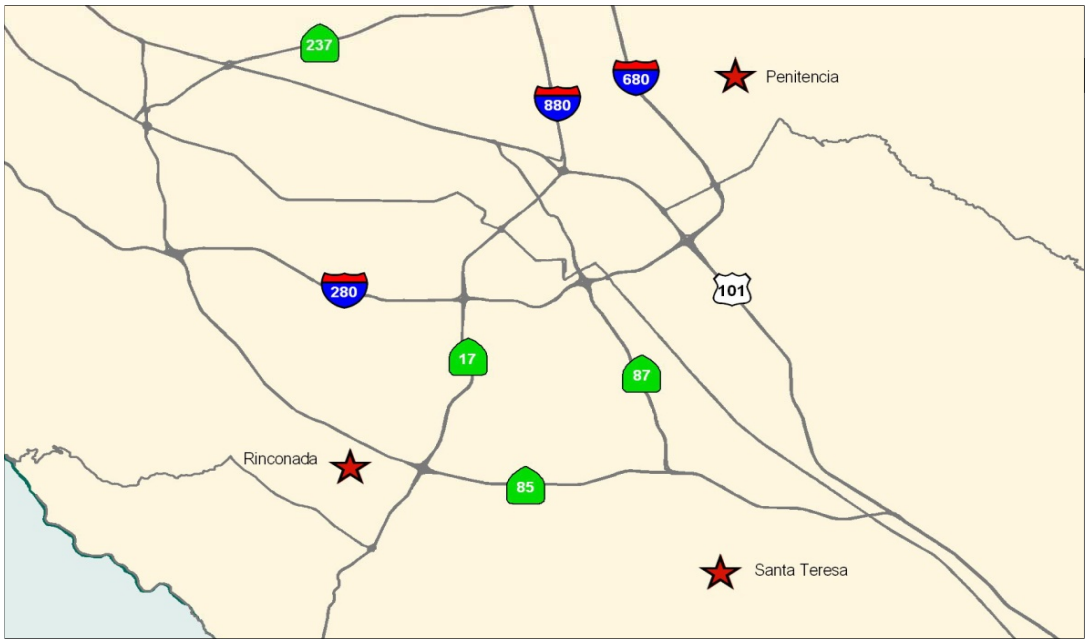
Project	**Fluoridation at Water Treatment Plants**
Program	Water Supply – Treatment
Priority No.	51
Project No.	93084011
District Contact	Katherine Oven koven@valleywater.org

Chemical storage tank and associated hardware will be installed at the water treatment plants for the fluoridation process

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements at the water treatment plants to provide fluoridation facilities that will include fluorosilicic acid storage tanks, tank foundations, chemical feed facilities, spill containment, storage and feed equipment areas, piping, online fluoride analyzers, and accessories.

PROJECT LOCATION

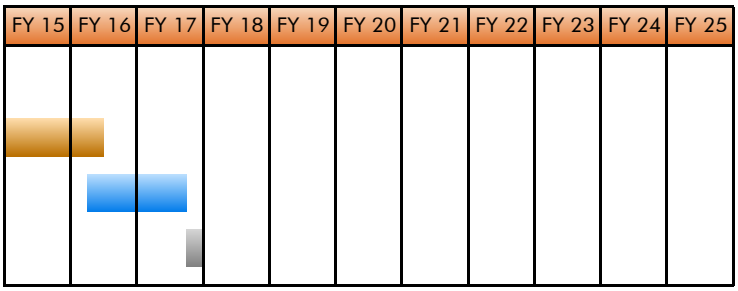


★ Project Location

SCHEDULE & STATUS

September 2013 to June 2017

Phase	Cost
Plan	220
Design	1,031
Construct	6,332
Closeout	85
	7,668



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures						Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
93084011-Fluoridation at Water Treatment Plants	285	922	5,327	1,134	0	0	0	0	7,668
with inflation	285	922	5,327	1,227	0	0	0	0	7,761

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
93084011-Fluoridation at Water Treatment Plants	357	850	0	5,327	1,227	0	0	0	0	7,761

Adjusted Budget includes adopted budget plus a planned budget adjustment for $59,000.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	5,361
The Health Trust	1,000
First 5 of Santa Clara County	900
California Dental Association Foundation	500
Total	**7,761**

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $1,000,000 per year, beginning in FY 2019.

USEFUL LIFE:

Fluoride System: 10 years
Bulk Storage Tanks: 20 years

Project	**Infrastructure Reliability**
Program	Water Supply – Treatment
Priority No.	30
Project No.	93504001
District Contact	Erin Baker ebaker@valleywater.org

The District will work collaboratively with retailers to identify infrastructure reliability improvements such as an emergency well field, similar to the field shown here.

PROJECT DESCRIPTION

This project implements the Infrastructure Reliability Master Plan created to ensure the District's water supply infrastructure is reliable under a variety of current and future operational scenarios and outages. The plan will evaluate raw and treated water systems in both North and South County. It will plan for system outages and assess strategic infrastructure projects such as interties and new customer connections to accomplish the following objectives:

- Set level of service goals or operating strategies for a range of system outages.
- Quantify impacts for a range of system outages.
- Address system capacity constraints and new customer connections.
- Identify improvements that will help prevent or accommodate system outages, and help meet level of service goals.

PROJECT LOCATION

No project map is provided. Potential project locations countywide.

SCHEDULE & STATUS

July 2010 to June 2016

The schedule only shows the Planning Phase, Design and Construction phase schedules will be determined after Planning is completed.

Phase	Cost
Plan	2,430
Design	23
Construct	-
Closeout	-
	2,453

FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
93504001-Infrastructure Reliability	1,391	520	542	0	0	0	0	0	2,453
with inflation	1,391	520	542	0	0	0	0	0	2,453

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
93504001-Infrastructure Reliability	1,699	474	262	280	0	0	0	0	0	2,453

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	2,453
Other Funding Source	0
Total	2,453

OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined during the planning phase.

USEFUL LIFE: 30+ Years

Project IRP2 WTP Operations Buildings Seismic Retrofit
Program Water Supply - Treatment **Priority No.** 70
District Contact Katherine Oven koven@valleywater.org **Project No.** 93764003

The RWTP control building is one of the four buildings that will be studied and possibly retrofitted to meet safety requirements

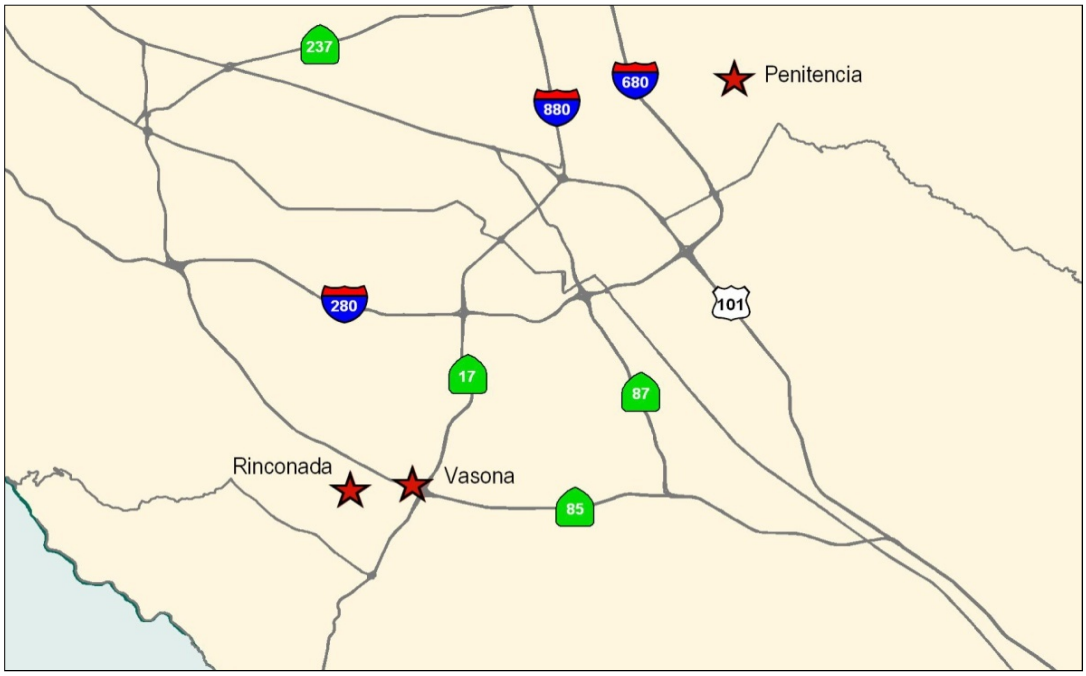
The PWTP control building is another of the four buildings that will be studied and possibly retrofitted to meet safety requirements

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements, including possible seismic retrofitting of two water treatment plant operations buildings and two buildings at the Vasona Pump Station that were built prior to 1980, as defined in the Water Infrastructure Reliability Plan, Portfolio 2 (IRP2), to ensure a healthy and safe work environment for employees and provide for continued functionality of these critical facilities after a major earthquake.

In addition, this Project will consider some non-structural elements of the Rinconada Water Treatment Plant (RWTP) Control Building, such as space reallocation, Americans with Disablities Act (ADA) improvements, and heating, ventilation, and air conditioning (HVAC) system rehabilitation.

PROJECT LOCATION

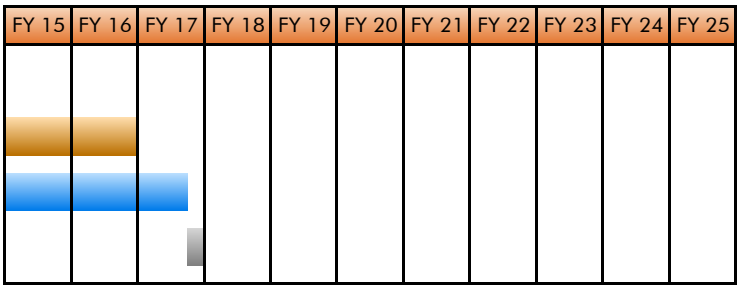


Project Location

SCHEDULE & STATUS

January 2008 to June 2017

Phase	Cost
Plan	1,403
Design	2,641
Construct	17,078
Closeout	70
	21,192



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
93764003-IRP2 WTP Operations Buildings Seismic Retrofit	4,273	11,989	4,130	888	0	0	0	0	21,280
with inflation	4,273	11,989	4,130	960	0	0	0	0	21,352

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
93764003-IRP2 WTP Operations Buildings Seismic Retrofit	13,792	5,894	3,424	706	960	0	0	0	0	21,352

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	21,352
Other Funding Source	0
Total	**21,352**

OPERATING COST IMPACTS

Completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not alter the existing modes of operation. However, seismic retrofit will reduce or avoid structural damages and reduce the cost of post-earthquake repairs.

USEFUL LIFE: 50+ Years

Project	**PWTP Clearwell Recoating and Repair**
Program	Water Supply – Treatment
Priority No.	68
Project No.	93234043
District Contact	Katherine Oven koven@valleywater.org

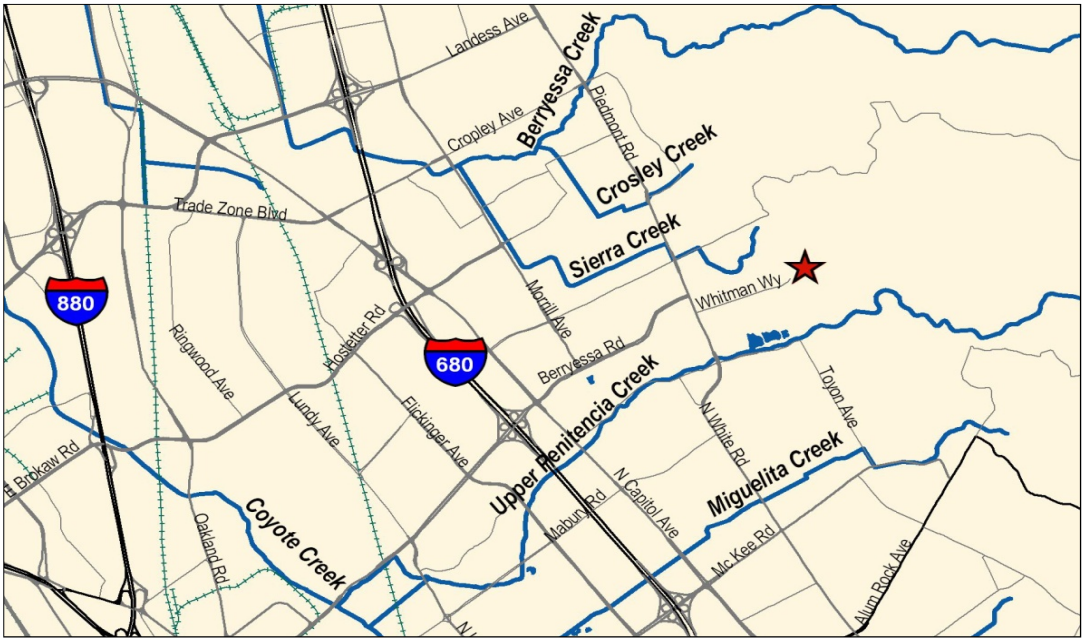
Active corrosion of the rafters and rafter support

PROJECT DESCRIPTION

This project plans, designs, and constructs corrosion repairs to the existing clearwell at Penitencia Water Treatment Plant (PWTP) to accomplish the following objectives:

- Extend the life of the PWTP Clearwell by removing as much corrosion as possible and recoating surfaces as necessary.
- Evaluate the structural condition of the rafters and supports as identified in the January 2009 report by Bay Area Coating Consultants.

PROJECT LOCATION

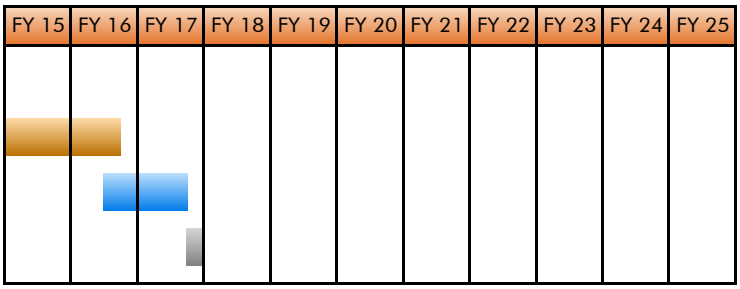


★ Project Location

SCHEDULE & STATUS

July 2010 to June 2017

Phase	Cost
Plan	530
Design	489
Construct	4,072
Closeout	15
	5,106



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
93234043-PWTP Clearwell Recoating and Repair	1,231	15	3,573	534	0	0	0	0	5,353
with inflation	1,231	15	3,573	578	0	0	0	0	5,397

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
93234043-PWTP Clearwell Recoating and Repair	1,594	2,922	3,270	303	578	0	0	0	0	5,397

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	5,397
Other Funding Source	0
Total	5,397

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs as it does not alter existing modes of operation.

USEFUL LIFE: 15 Years

Project	**PWTP Water Pumps Modification**
Program	Water Supply – Treatment
Priority No.	75
Project No.	93234042
District Contact	Katherine Oven koven@valleywater.org

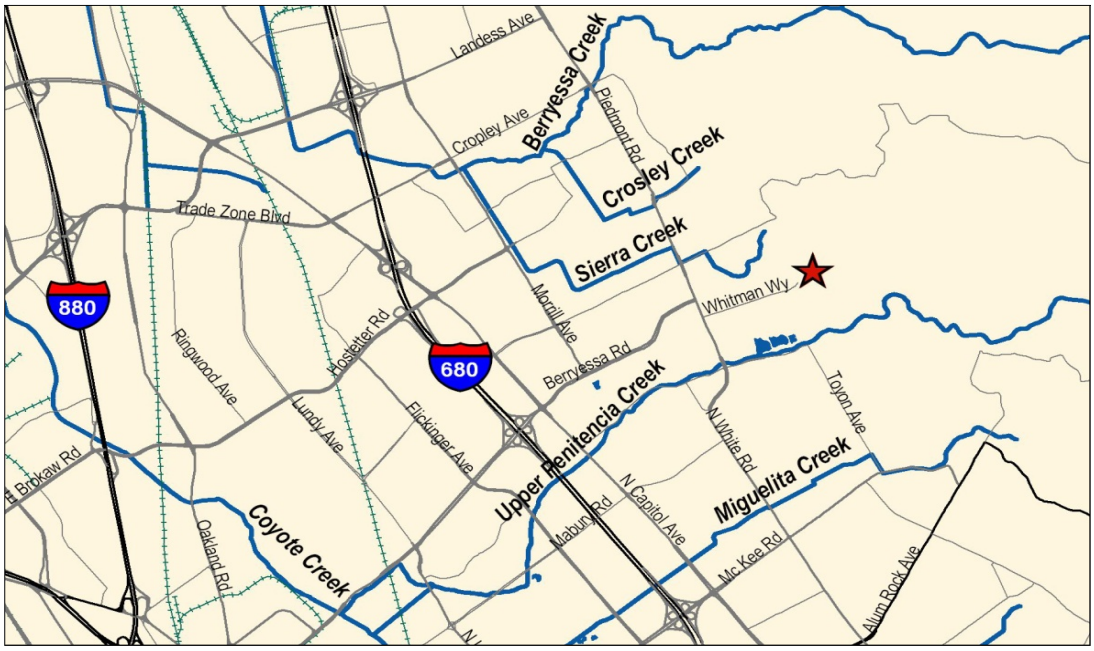
Two plant water pumps and three cooling water pumps supply water used at the Penitencia Water Treatment Plant

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements at Penitencia Water Treatment Plant (PWTP) pumps to accomplish the following objectives:

- Increase operating capacity of the plant water pumps.
- Increase operating capacity of the cooling water pumps.
- Meet plant water demands.
- Improve operational reliability.

PROJECT LOCATION

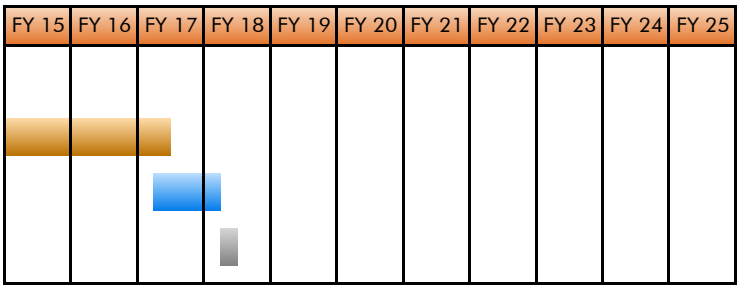


★ Project Location

SCHEDULE & STATUS

October 2009 to December 2017

Phase	Cost
Plan	773
Design	684
Construct	2,130
Closeout	16
	3,603



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
93234042-PWTP Water Pumps Modification	890	80	390	1,922	321	0	0	0	3,603
with inflation	890	80	390	2,063	361	0	0	0	3,784

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
93234042-PWTP Water Pumps Modification	3,036	151	2,217	0	236	361	0	0	0	3,784

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	3,784
Other Funding Source	0
Total	3,784

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 30 Years

Project RWTP FRP Residuals Management
Program Water Supply - Treatment **Priority No.** 87
District Contact Katherine Oven koven@valleywater.org **Project No.** 93294051

Existing belt press to be replaced with new residuals management facility

Formwork for gravity thickeners for modernized sludge processing facility

PROJECT DESCRIPTION

This project plans, designs, and constructs modifications to the Rinconada Water Treatment Plant (RWTP) residuals management processes, consistent with the Facility Renewal Program (FRP) to accomplish the following objectives:

- Extend the useful life of the treatment plant.
- Improve the efficiency of the residual management processes.
- Minimize risk of discharge violations.
- Improve the reliability of RWTP.

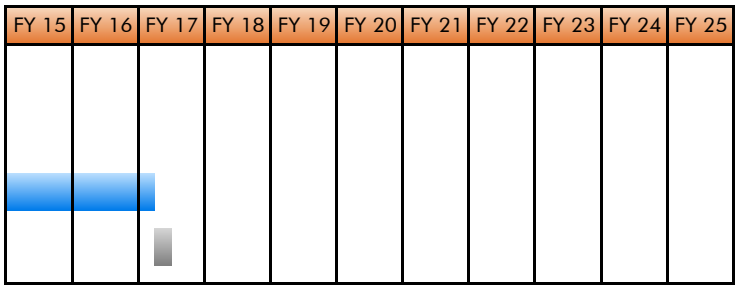
PROJECT LOCATION

★ Project Location

SCHEDULE & STATUS

July 2008 to December 2016

Phase	Cost
Plan	1,434
Design	2,310
Construct	7,018
Closeout	80
	10,842



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
93294051-RWTP FRP Residuals Management	23,236	1,768	1,092	235	0	0	0	0	26,331
with inflation	23,236	1,768	1,092	254	0	0	0	0	26,350

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
93294051-RWTP FRP Residuals Management	24,984	1,038	1,018	74	254	0	0	0	0	26,350

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	26,350
Other Funding Source	0
Total	26,350

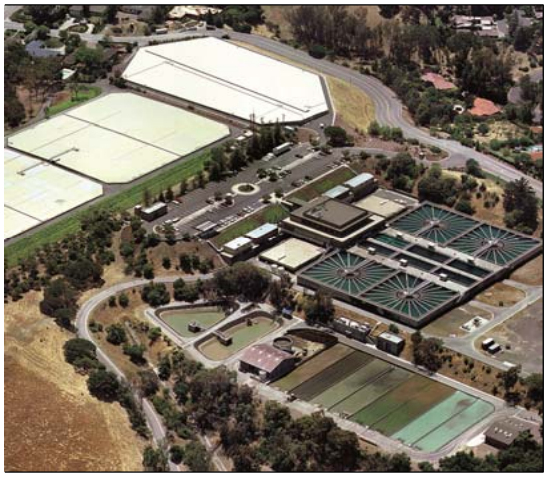
OPERATING COST IMPACTS

The completion of this project is anticipated to decrease annual operating costs by approximately $200,000 per year starting in 2018.

USEFUL LIFE:

Structures – 50 Years; Mechanical Equipment – 15 Years; Electrical Equipment – 10 Years

Project RWTP Reliability Improvement
Program Water Supply - Treatment
District Contact Katherine Oven koven@valleywater.org
Priority No. 91
Project No. 93294057



Aerial view of the
Rinconada Water Treatment Plant facing west

Artist rendering of the aerial view of the Rinconada
Water Treatment Plant facing south after construction

PROJECT DESCRIPTION

This project plans, designs, and constructs new facilities at Rinconada Water Treatment Plant (RWTP) that will improve plant reliability by accomplishing the following objectives:

- Construct a new raw water ozonation facility.
- Construct a new flocculation and plate settler clarification facility.
- Implement a dual media filtration system.
- Increase plant capacity to 100 million gallons per day (MGD).

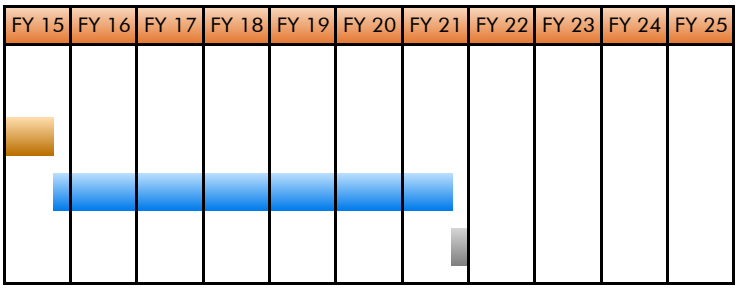
PROJECT LOCATION

★ Project Location

SCHEDULE & STATUS

July 2009 to June 2021

Phase	Cost
Plan	1,625
Design	11,300
Construct	228,411
Closeout	120
	241,456



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
93294057-RWTP Reliability Improvement	19,307	6,450	45,752	44,400	43,900	43,900	44,930	120	248,759
with inflation	19,307	6,450	45,752	45,036	44,812	45,139	46,734	152	253,383

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
93294057-RWTP Reliability Improvement	19,113	46,394	39,750	6,002	45,036	44,812	45,139	46,734	152	253,383

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	253,383
Other Funding Source	0
Total	253,383

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $1.4 million per year, beginning in FY 2022. Increases are for routine maintenance and operation of new equipment.

USEFUL LIFE:

Media – 20 Years; Structures – 50 Years; Equipment – 15 Years

Project	**RWTP Treated Water Valves Upgrade**
Program	Water Supply – Treatment
Priority No.	87
Project No.	93294056
District Contact	Katherine Oven koven@valleywater.org

Example of a valve to be replaced or upgraded

PROJECT DESCRIPTION

This project plans, designs, and constructs modifications to the Rinconada Water Treatment Plant (RWTP) including seismically strengthening the chemical storage structures; replacing/upgrading the valves and appurtenances used to control treated water at the clearwells and the Ronconada Reservoir; repairing a damaged baffle wall in the Rinconada Reservoir; and installing a 48-inch magnetic flow meter on the treatment plant's treated water effluent pipeline. Consistent with the Facility Renewal Program (FRP), this project will accomplish the following objectives:

- Ensure plant operational reliability.
- Improve ability to maintain the plant.
- Allow for better isolation of the treated water control valves for future work.
- Achieve greater accuracy in measuring treated water deliveries.

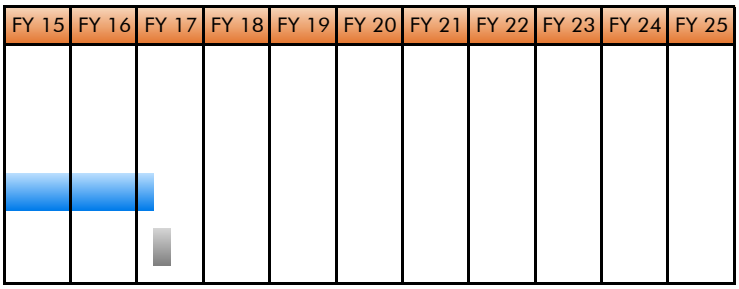
PROJECT LOCATION

★ Project Location

SCHEDULE & STATUS

July 2009 to December 2016

Phase	Cost
Plan	465
Design	1,444
Construct	3,690
Closeout	30
	5,629



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
93294056-RWTP Treated Water Valves Upgrade	6,934	842	593	70	0	0	0	0	8,439
with inflation	6,934	842	593	76	0	0	0	0	8,445

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
93294056-RWTP Treated Water Valves Upgrade	7,945	130	299	294	76	0	0	0	0	8,445

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	8,445
Other Funding Source	0
Total	**8,445**

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operations.

USEFUL LIFE: 40 Years

Project	**Small Capital Improvements, Water Treatment**
Program	Water Supply – Treatment
Priority No.	67
Project No.	93764004
District Contact	Angela Cheung acheung@valleywater.org

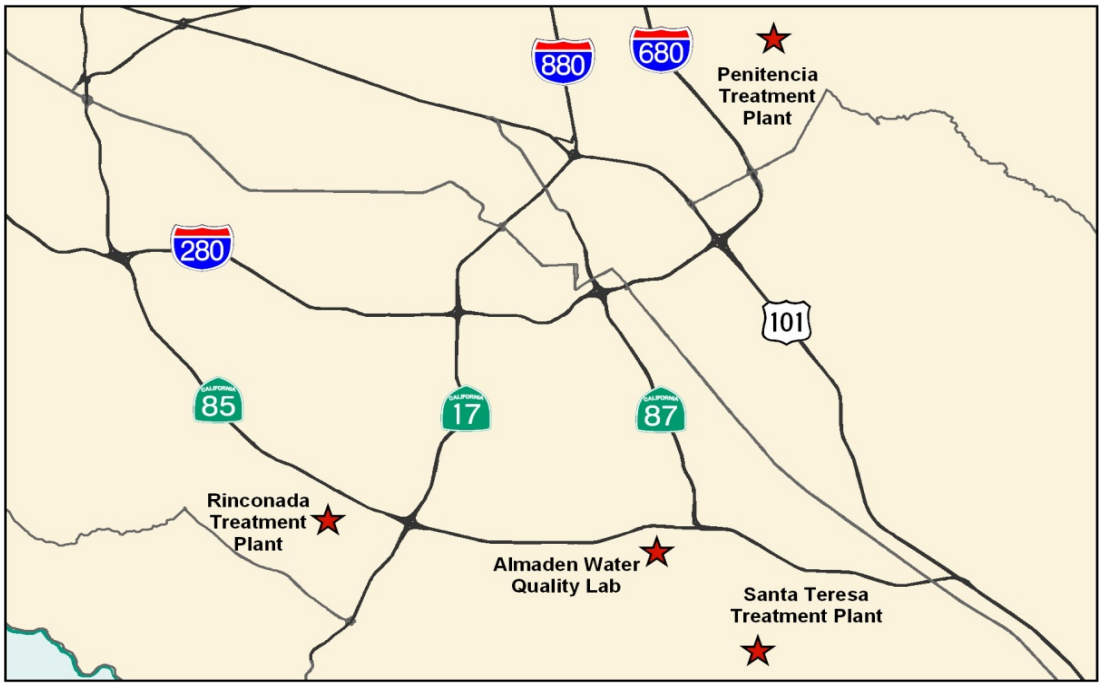
Sludge pond sediment removal at Santa Teresa Water Treatment Plant

PROJECT DESCRIPTION

This project provides resources for the improvement of small capital investments that replace or extend the lifetime of an asset. This project implements a systematic approach of equipment replacement and renewal at the three water treatment plants and laboratory by designing and constructing improvements identified as part of the District's 10-year asset management program. Typical activities included in this project include pump, motor, instrumentation and valve replacement; chemical tank repairs; and large-scale renewal and replacement activities like clarifier mechanism overhaul and replacement. Planned projects to complete in FY 2016 for Santa Teresa Water Treatment Plant (STWTP), Penitencia Water Treatment Plan (PWTP), Rinconada Water Treatment Plant (RWTP, West Pipeline, and Silicon Valley Advanced Water Purification Center (SVAWPC) include:

- Clean 3 sludge ponds and replace drain valves; replace media on Filters 1 through 10 at STWTP.
- Replace Cationic Poly metering pumps and VFD's; rebuild 2 pumps in More Ave. Pumping Station; repair linings on OCL Tanks 1, 2, and 3; replace Water Softner at RWTP.
- Replace OCL process piping; replace Sedimation Basin #1 chains, flights, and sprockets at PWTP.
- Install water quality monitoring equipment on the West Pipeline.
- Purchase equipment for SVAWPC.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

This project is part of a regularly scheduled 10-year maintenance and asset management program.

Traditional planning, design, and construction phases do not apply.

Phase	Cost
Plan	n/a
Design	n/a
Construct	n/a
Closeout	n/a
	n/a

FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
93764004-Small Capital Improvements, Water Treatment	n/a	2,175	3,509	3,162	1,316	3,001	2,893	20,483	36,539
with inflation	n/a	2,175	3,509	3,420	1,480	3,511	3,520	31,152	48,767

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
93764004-Small Capital Improvements, Water Treatment	n/a	2,175	0	3,509	3,420	1,480	3,511	3,520	31,152	48,767

Adjusted Budget includes adopted budget plus approved budget adjustments. Small Capital Improvement projects do not carry forward unspent funds from one fiscal year to the next. Excess funds are returned to fund reserves at the close of each fiscal year and new funding is provided in the next fiscal year.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	48,767
Other Funding Source	0
Total	48,767

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

Project	**Recycled Water Facilities' Expansion**
Program	Water Supply – Recycled Water
Priority No.	38
Project No.	91304001s
District Contact	Katherine Oven koven@valleywater.org

Reverse osmosis membranes used for water purification

PROJECT DESCRIPTION

This project plans, designs, and constructs new infrastructure proposed in the District's 2012 Water Supply and Infrastructure Master Plan to accomplish the following objectives:

- Expand the District's long-term water supply portfolio.
- Ensure a drought-proof and reliable water supply for Silicon Valley.

Project elements may include, but are not limited to:

- Expansion of the Silicon Valley Advanced Water Purification Center.
- Installation of pipelines to convey advanced purified water to the District's existing groundwater recharge ponds.
- Installation of purified water injection wells at strategic locations to better manage the groundwater basin.
- Construction and operation of an advanced water purification center for groundwater recharge at Ford Ponds.
- Partnership with the City of Sunnyvale to implement advanced water purification facilities at the City's wastewater treatment plant.

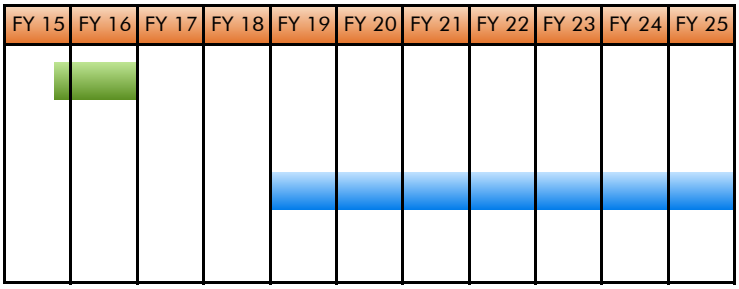
PROJECT LOCATION

★ Project Location

SCHEDULE & STATUS

July 2018 to June 2030

Phase	Cost
Plan	18,000
Design	-
Construct	556,467
Closeout	-
	574,467



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
91304001 - Indirect Potable Water Reuse Projects - Planning	0	1,500	16,500	0	0	0	0	0	18,000
with inflation	0	1,500	16,500	0	0	0	0	0	18,000
91C40368 - Recycled Water Facilities' Expansion - North County Recharge - Proj #3	0	0	0	0	0	1,663	1,746	23,203	26,612
with inflation	0	0	0	0	0	1,663	1,746	23,203	26,612
91C40380 - Recycled Water Facilities' Expansion - Potable Reuse Recharge - Proj #17	0	0	0	0	0	13,159	13,817	#####	510,137
with inflation	0	0	0	0	0	13,159	13,817	#####	510,137
91C40381 - Recycled Water Facilities' Expansion - Lexington Pipeline - Proj #38	0	0	0	0	0	1,208	1,269	17,241	19,718
with inflation	0	0	0	0	0	1,208	1,269	17,241	19,718
TOTAL	0	1,500	16,500	0	0	16,030	16,832	523,605	574,467
with inflation	0	1,500	16,500	0	0	16,030	16,832	523,605	574,467

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
91304001 - Indirect Potable Water Reuse Projects - Planning	0	1,500	0	16,500	0	0	0	0	0	18,000
91C40368 - Recycled Water Facilities' Expansion - North County Recharge - Proj #3	0	0	0	0	0	0	1,663	1,746	23,203	26,612
91C40380 - Recycled Water Facilities' Expansion - Potable Reuse Recharge - Proj #17	0	0	0	0	0	0	13,159	13,817	483,161	510,137
91C40381 - Recycled Water Facilities' Expansion - Lexington Pipeline - Proj #38	0	0	0	0	0	0	1,208	1,269	17,241	19,718
TOTAL	0	1,500	0	16,500	0	0	16,030	16,832	523,605	574,467

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	574,467
Other Funding Sources	0
Total	574,467

OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined during the planning phase.

USEFUL LIFE: Not Available

Project Silicon Valley Advanced Water Purification Center
Program Water Supply - Recycled Water **Priority No.** 17
District Contact Katherine Oven koven@valleywater.org **Project No.** 91184008

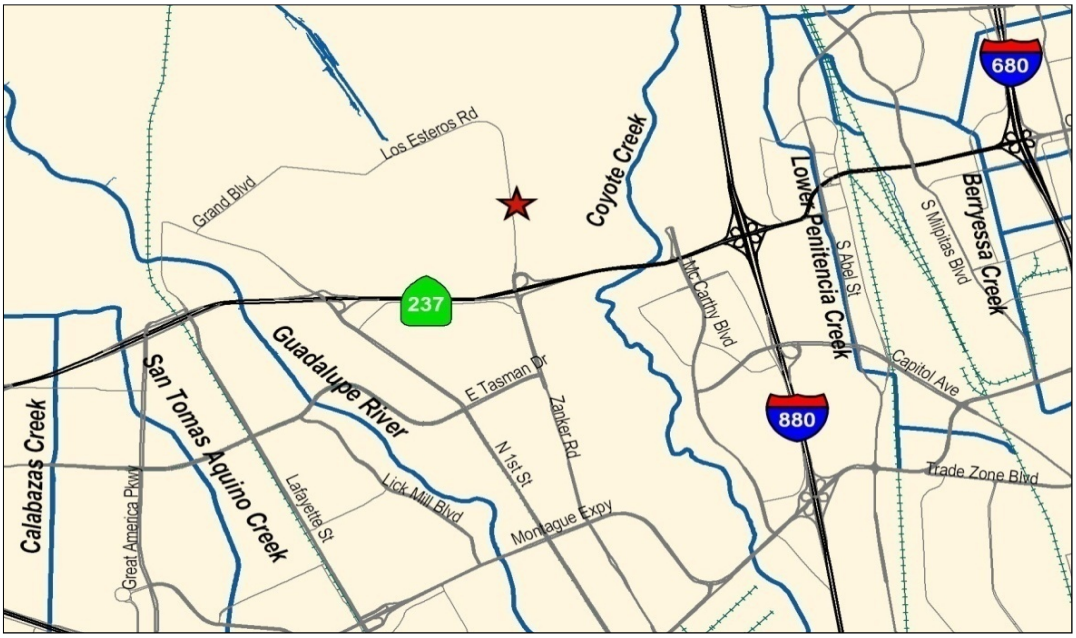
Panoramic view of the Silicon Valley Advanced Water Purification Center

PROJECT DESCRIPTION

This project plans, designs, and constructs a 10-mgd (million-gallons-per-day) Silicon Valley Advanced Water Purificaton Center (SVAWPC) within the footprint of the South Bay Water Recycling's Water Pollution Control Plant (WPCP) in San Jose, to accomplish the following objectives:

- Improve recycled water quality to enhance marketability.
- Increase the operational reliability and flexibility of recycled water.
- Retain existing customers who may have water quality (especially salinity) issues.
- Improve public acceptance of recycled water.
- Maximize water recycling alternatives.
- Reduce fresh water effluent discharges into San Francisco Bay to protect endangered species.
- Increase tertiary treatment capacity for the water pollution control plant.
- Preserve options for future groundwater recharge and reuse.

PROJECT LOCATION

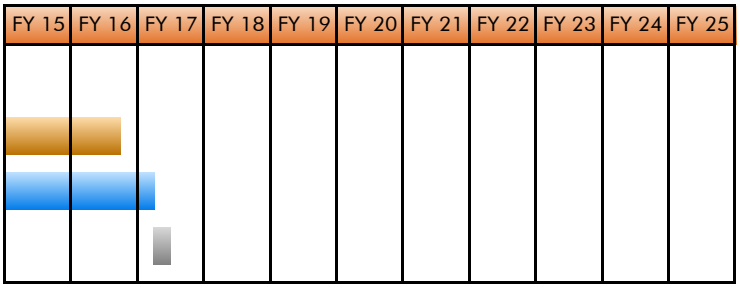


★ Project Location

SCHEDULE & STATUS

January 2004 to December 2016

Phase	Cost
Plan	2,672
Design	3,515
Construct	70,497
Closeout	197
	76,881



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
91184008-Silicon Valley Advanced Water Purification Center	70,096	6,304	520	130	0	0	0	0	77,050
with inflation	70,096	6,304	520	141	0	0	0	0	77,061

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
91184008-Silicon Valley Advanced Water Purification Center	70,074	6,326	0	520	141	0	0	0	0	77,061

Adjusted Budget includes adopted budget plus a planned budget adjustment of $1,859,000.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	55,016
City of San Jose	8,500
California Department of Water Resources - Prop 50	2,935
California Department of Water Resources - Prop 84	2,485
United States Bureau of Reclamation (USBR) ARRA	8,125
Total	**77,061**

OPERATING COST IMPACTS

The completion of this project is anticipated to increase the District's operating costs by approximately $1.75 million per year, beginning in FY 2018. The City of San Jose will also be responsible for contributing the same amount to cover total annual operations costs of approximately $3.5 million. Total cost includes labor, membranes replacement, energy, UV lamp replacement, chemicals, and other necessary items.

USEFUL LIFE: 20-30 Years

Project	**South County Recycled Water Pipeline**
Program	Water Supply – Recycled Water
Priority No.	16
Project No.	91094007s
District Contact	Katherine Oven koven@valleywater.org

Recycled water purple pipeline waiting to be laid during construction of Immediate Term project

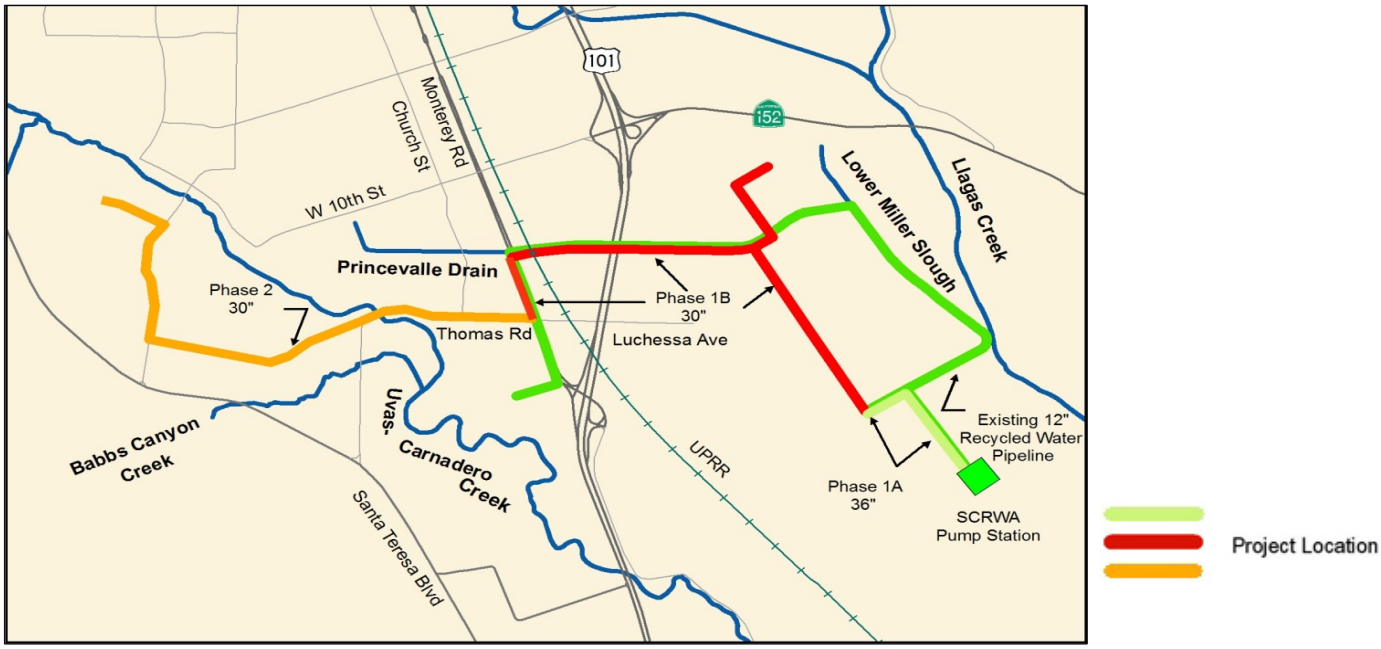
PROJECT DESCRIPTION

This project plans, designs, and constructs water recycling systems based on the South County Recycled Water Master Plan report that the District and South County Regional Wastewater Authority (SCRWA) Boards accepted in December 2004 to operate and expand the South County Recycled Water System.

The current Master Plan report presents a 20-year capital program for expanding water recycling in South County in three phases; Immediate Term, Short Term, and Long Term:

- Already complete: Gilroy Pipelines and Reservoir (Immediate Term) includes design and construction of recycled water storage, pumping, and distribution facilities for agricultural use near the SCRWA treatment plant (91094007).
- Currently underway: Gilroy Pipelines (Short Term) Phase 1A approximately 3000 feet of 30-inch and 36-inch pipeline is complete. Phase 1B will construct an additional 14,000 linear feet of pipeline. Together these two projects will improve system redundancy, reliability, and capacity.
- The Short-Term Phase 2 Recycled Water Pipeline alignment from the 2004 Master Plan will be completed through cost-sharing opportunities with the City of Gilroy and land developers. Construction of this work will install approximately 11,600 linear feet of 30-inch diameter pipe.
- Currently there is no plan to implement the long term component of the 2004 master plan.

PROJECT LOCATION

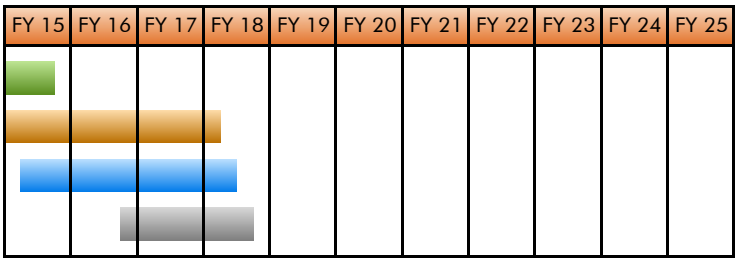


SCHEDULE & STATUS

July 2009 to March 2018

The schedule chart shows Short-Term Phase 1B and Phase 2 projects only. The Immediate-Term and Short-Term Phase 1A projects are complete.

Phase	Cost
Plan	3,235
Design	6,985
Construct	20,639
Closeout	179
	31,038



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
91094007-Recycled Water South County Masterplan - Immediate Term	3,257	0	0	0	0	0	0	0	3,257
with inflation	3,257	0	0	0	0	0	0	0	3,257
91094008-Recycled Water South County Masterplan - Short Term 1A	5,391	0	0	0	0	0	0	0	5,391
with inflation	5,391	0	0	0	0	0	0	0	5,391
91094009-South County Recycled Water Pipeline - Short Term 1B	3,063	3,303	856	6,985	129	0	0	0	14,336
with inflation	3,063	3,303	856	7,491	145	0	0	0	14,858
91094010-South County Recycled Water Pipeline - Short Term 2	16	4,400	3,692	0	0	0	0	0	8,108
with inflation	16	4,400	3,692	0	0	0	0	0	8,108
TOTAL	**11,727**	**7,703**	**4,548**	**6,985**	**129**	**0**	**0**	**0**	**31,092**
with inflation	**11,727**	**7,703**	**4,548**	**7,491**	**145**	**0**	**0**	**0**	**31,614**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
91094007-Recycled Water South County Masterplan - Immediate Term	3,257	0	0	0	0	0	0	0	0	3,257
91094008-Recycled Water South County Masterplan - Short Term 1A	5,391	0	0	0	0	0	0	0	0	5,391
91094009-South County Recycled Water Pipeline - Short Term 1B	3,155	3,392	181	4,481	3,685	145	0	0	0	14,858
91094010-South County Recycled Water Pipeline - Short Term 2	3,000	5,000	3,584	108	0	0	0	0	0	8,108
TOTAL	**14,803**	**8,392**	**3,765**	**4,589**	**3,685**	**145**	**0**	**0**	**0**	**31,614**

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	29,611
South County Regional Wastewater Authority	708
United States Bureau of Reclamation (USBR) ARRA	1,295
Total	**31,614**

OPERATING COST IMPACTS

Estimated District share of the operating and maintenance costs are $8,000 per year for the Immediate-Term phase, beginning in FY 2007 and an additional $25,000 for the Short-Term Phase 1, beginning in FY 2019. Increases for Immediate Term are primarily labor costs for operating the new 3mg reservoir and its pump station. Increases for Short Term are labor and materials to maintain the 42,000 feet of new pipeline, exercising valves and cathodic protection.

USEFUL LIFE: Pipelines – 50 Year; Pumps – 20 Years

Project	**Wolfe Road Recycled Water Facility**
Program	Water Supply – Recycled Water
Priority No.	32
Project No.	91244001
District Contact	Katherine Oven koven@valleywater.org

Artist's rendering of the new Apple campus and surrounding grounds that will be maintained using recycled water supplied by the Wolfe Road pipeline

PROJECT DESCRIPTION

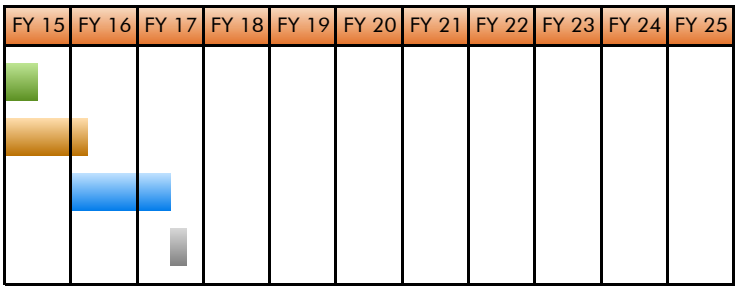
This project plans, designs, and constructs approximately 13,300 linear feet of pipeline along Wolfe Road to deliver recycled water to the west side of Sunnyvale and the new Apple campus in Cupertino.

PROJECT LOCATION

SCHEDULE & STATUS

September 2013 to January 2017

Phase	Cost
Plan	17
Design	1,800
Construct	16,003
Closeout	17
	17,837



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
91244001-Wolfe Road Recycled Water Facility	407	1,411	15,353	666	0	0	0	0	17,837
with inflation	407	1,411	15,353	720	0	0	0	0	17,891

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
91244001-Wolfe Road Recycled Water Facility	800	9,808	8,790	6,563	720	0	0	0	0	17,891

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	6,991
Apple Inc.	4,800
California Department of Water Resources	2,500
Cal Water	1,500
City of Sunnyvale	2,100
Total	**17,891**

OPERATING COST IMPACTS

The operating budget impact to operate and maintain the Wolfe Rd. Recycled Water Facilities is estimated to be $25,000 per year plus power costs of approximately $56 per each acre-foot of water delivered.

USEFUL LIFE: 50 Years

Flood Protection Capital Improvements

FLOOD PROTECTION OVERVIEW

The District manages approximately 800 miles of creeks in Santa Clara County to meet the Board's Ends Policy E–3, "There is a healthy and safe environment for residents, businesses and visitors, as well as for future generations." The district's goals are further defined in E-3.1, "Provide natural flood protection for residents, businesses, and visitors" and E-3.2, "Reduce potential for flood damages." The 800 miles of creeks are located in five watersheds: Lower Peninsula, West Valley, Guadalupe, Coyote, and Uvas/Llagas. The District administers an asset management program for its flood protection infrastructure. The program includes a schedule for maintenance and rehabilitation to ensure that each facility functions as intended over its useful life.

Fifty years of working for flood protection has significantly reduced the intensity and frequency of flooding in Santa Clara County. By 2005 the District had provided flood protection to 93,253 of the 166,526 parcels in the flood plain and another 6,642 have been protected since then.

The voters in Santa Clara County have supported the District's flood protection efforts by approving benefit assessment funding in 1982, 1986, and 1990. Voters approved a special parcel tax in 2000 and 2012 to fund the continuation of the District's flood protection capital improvements, specifically, moving upstream from the completed downstream work or starting new work on creeks that have not had flood protection work.

Lower Peninsula Watershed

Major Capital Improvements Completed

- Adobe Creek from El Camino to Rhus Ridge
- Barron Creek
- Matadero Creek from Palo Alto Flood Basin to Barron Creek
- Stevens Creek from Highway 101 to Homestead Road

Major Capital Improvements Identified in the CIP

- Palo Alto Flood Basin Structure Improvements
- Permanente Creek from S.F. Bay to Foothill Expressway (Safe, Clean Water)
- San Francisquito Creek from S.F. Bay to Searsville Dam (Clean, Safe Creeks/Safe, Clean Water)

West Valley Watershed

Major Capital Improvements Completed

- Calabazas Creek from Guadalupe Slough to Miller Avenue
- San Tomas Creek from Southern Pacific Railroad to Cabrillo Avenue
- Saratoga Creek from San Tomas Creek to Lawrence Expressway

Major Capital Improvements Identified in the CIP

- Sunnyvale East and West Channels (Clean, Safe Creeks)

Guadalupe Watershed

Major Capital Improvements Completed

- Alamitos Creek
- Guadalupe River–Lower from Alviso Marina to Interstate 880
- Guadalupe River–Downtown from Interstate 880 to Interstate 280

Major Capital Improvements Identified in the CIP

- Guadalupe River–Upper, Interstate 280 to Blossom Hill Road (Clean, Safe Creeks/Safe, Clean Water)

Coyote Watershed

Major Capital Improvements Completed

- Coyote Creek from S.F. Bay to Montague Expressway
- Lower Penitencia Creek from Coyote Creek to Tasman Drive
- Lower Silver Creek from Coyote Creek to Interstate 680 (Reaches 1-3)
- Wrigley Ford Creek

Major Capital Improvements Identified in the CIP

- Berryessa Creek from Lower Penitencia Creek to Calaveras Boulevard
- Berryessa Creek from Calaveras Boulevard to Old Piedmont Road (Clean, Safe Creeks)
- Coyote Creek Montague Expressway to Interstate 280 (Clean, Safe Creeks)
- Upper Penitencia Creek from Coyote Creek to Dorel Drive (Safe, Clean Water)
- Lower Silver Creek from Interstate 680 to Lake Cunningham (Reaches 4-6)

Uvas/Llagas Watershed

Major Capital Improvements Completed

- Llagas Creek–Lower from Pajaro River to Buena Vista Road
- Uvas Creek

Major Capital Improvements Identified in the CIP

- Llagas Creek–Upper, Buena Vista Road to Llagas Road (Clean, Safe Creeks/Safe, Clean Water)
- Llagas Creek Capacity Restoration from Buena Vista Road to Pajaro River

Multiple Watersheds

Major Capital Improvements Identified in the CIP

- San Francisco Bay Shoreline (Safe, Clean Water)

PRIORITY PROCESS AND FINANCIAL ANALYSIS

A rigorous priority setting process was conducted to ensure that the new flood protection projects proposed to be added to the Fiscal Year 2016-20 CIP reflect the Board's priorities. The priority criteria used are included in Appendix A.

A financial analysis of the Watershed and Steam Stewardship Fund and Safe, Clean Water Fund, the funding sources for flood protection capital improvements, was conducted to determine if there are limitations to funding all of the projects proposed for the Fiscal Year 2016-20 CIP. Results of the prioritization process and financial analysis are summarized in Appendix B.

The watershed financial outlook is significantly improved from recent years. The watersheds have benefited from higher than projected property tax revenue in fiscal years 2013, 2014 and 2015. The District will also receive $30 million from DWR to assist with construction of Lower Berryessa, Upper Berryessa, and Lower Penitencia.

The voter approved Safe, Clean Water program will provide funding for some of the highest priority unfunded projects including:

- San Francisco Bay Shoreline - Design and Partial Construction of EIA 11 and Planning for other EIAs
- Upper Penitencia Creek, Coyote to Dorel Drive
- San Francisquito Creek, SF Bay to Middlefield Road
- Upper Llagas Creek, Buena Vista Road to Wright Avenue
- Upper Guadalupe River, I-280 to Blossom Hill Road

Delays in the federal funding for many of the USACE projects have extended the schedules beyond the dates committed by the District. Therefore, the District is evaluating the option of proceeding with the local funding option on several of these projects. Construction on a number of flood protection projects have been delayed.

The following high priority flood protection projects, unfunded or partially funded, are of major concern to meet the Board's Ends Policy E–3, "There is a healthy and safe environment for residents, businesses and visitors, as well as for future generations."

Partially Funded and Unfunded CIP Projects

- San Francisco Bay Shoreline Project - except EIA 11 (Design and Construction is unfunded)
- Coyote Creek, Montague Expressway to Interstate 280 (Construction is unfunded)
- Upper Berryessa Creek, Interstate 680 to Old Piedmont Road (unfunded; $20 million)
- San Francisquito Creek 100 year flood protection upstream of Highway 101

Flood Protection Capital Improvements

The following table is a project funding schedule for flood protection capital improvements resulting from this year's priority process and financial analysis. Detailed information for each project can be found in this document on the following pages in the order presented in this table. The chart also identifies partially funded projects and estimated unspent appropriation from FY 2014-15.

Flood Protection Capital Improvements ($K)

Project Number	PROJECT NAME	Through FY14	FY15	FY15 Unspent	FY16	FY17	FY18	FY19	FY20	FY21-30	TOTAL
	LOWER PENINSULA WATERSHED										
10394001	Palo Alto Flood Basin Tide Gate Structure Improvements	343	473	707	384	-	4,556	6	-	-	5,762
10244001s	Permanente Creek, SF Bay to Foothill Expressway	53,556	9,013	35,071	-	3,668	281	117	-	-	66,635
10284007s	San Francisquito Creek, SF Bay thru Searsville Dam (E5)	32,410	6,440	24,222	6,886	12,494	1,687	-	-	-	59,917
	WEST VALEY WATERSHED										
20194005	San Tomas Creek, Quito Road Bridge Replacement	292	99	-	166	27	-	-	-	-	584
26074002	Sunnyvale East and West Channels	28,234	17,644	32,053	299	22,077	56	-	-	-	68,310
	GUADALUPE WATERSHED										
30114002	Canoas Creek, Rodent Damage Repair	-	300	-	4,029	-	-	-	-	-	4,329
26154001s	Guadalupe River–Upper, I-280 to Blossom Hill Road (E8)	112,193	386	16,658	302	24,138	7,913	10,586	11,088	14,573	181,179
	COYOTE WATERSHED										
26174041s	Berryessa Creek, Calaveras Boulevard to Interstate 680	28,839	6	1,980	3,839	13,741	956	1,000	893	-	49,274
40174004s	Berryessa Ck, Lower Penitencia Ck to Calaveras Blvd	39,879	27,812	15,813	20,226	1,535	1,159	108	112	167	90,998
26174043	Coyote Creek, Montague Expressway to Interstate 280	30,486	-	17,886	-	-	-	2,877	1,052	1,630	36,045
40264011	Cunningham Flood Detention Certification	2,717	1,741	2,770	-	2,556	4,169	2,263	255	-	13,701
40334005	Lower Penitencia Ck Improvements, Berryessa to Coyote Cks.	2,912	1,895	1,855	1,993	925	8,246	6,000	18	-	21,989
40264007s	Lower Silver Creek, I-680 to Cunningham (Reach 4-6)	90,574	4,730	2,773	1,484	476	287	59	12	-	97,622
40324003s	Upper Penitencia Creek, Coyote Creek to Dorel Drive	17,514	-	3,793	385	5,023	6,134	6,379	18,116	17,143	70,694
	UVAS LLAGAS WATERSHED										
50284010	Llagas Creek–Lower, Capacity Restoration, Buena Vista Road to Pajaro River	11,626	-	3,978	-	-	-	-	-	-	11,626
26174051s	Llagas Creek–Upper, Buena Vista Avenue to Llagas Road	63,242	17,638	26,561	52,072	30,309	-	-	-	-	163,261
	MULTIPLE WATERSHEDS										
00044026s	San Francisco Bay Shoreline (E7)	13,764	8,078	6,908	2,046	7,458	4,499	4,720	4,951	-	45,516
62084001	Small Capital Improvements - Watersheds	-	700	-	700	701	700	699	-	-	3,500
	TOTAL	528,581	96,955	193,028	94,811	125,128	40,643	34,814	36,497	33,513	990,942

The following table shows funding requirements from each funding source for flood protection capital improvements.

Flood Protection - Funding Sources ($K)

Fund Number	FUND NAME	Through FY14	FY15	FY15 Unspent	FY16	FY17	FY18	FY19	FY20	FY21-30	TOTAL
12	Watershed Stream Stewardship Fund	202,288	38,766	33,489	29,024	30,858	19,117	9,135	397	167	329,752
26	Safe, Clean Water and Natural Flood Protection Fund	326,293	58,189	159,539	65,787	94,270	21,526	25,679	36,100	33,346	661,190
	TOTAL	528,581	96,955	193,028	94,811	125,128	40,643	34,814	36,497	33,513	990,942

FY 2014-15 Funds to be reappropriated

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Project	**Palo Alto Flood Basin Tide Gate Structure Improvements**
Program	Flood Protection - Lower Peninsula Watershed
Priority No.	43
Project No.	10394001
District Contact	Melanie Richardson mrichardson@valleywater.org

View from the west side of the Palo Alto tide gates facing east

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to the Palo Alto Flood Basin structure to accomplish the following objectives:

- Replace or repair the existing tide gate structure to improve the functionality of the flood barrier system.
- Reduce the possibility of flooding in lower reaches of Matadero, Adobe, and Barron Creeks.
- Prevent environmental impacts due to submergence of habitat areas within the Basin for Salt Marsh Harvest Mouse, California Clapper Rail bird and the Black Rail bird.
- Prevent impacts due to sea level rise or a 100-year fluvial flood.

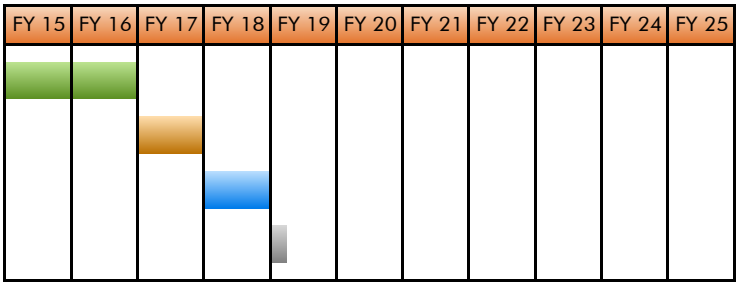
PROJECT LOCATION

★ Project Location

SCHEDULE & STATUS

October 2014 to September 2018

Phase	Cost
Plan	270
Design	757
Construct	4,145
Closeout	5
	5,177



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
10394001-Palo Alto Flood Basin Tide Gate Structure Improvements	78	31	166	747	4,155	5	0	0	5,182
with inflation	78	31	166	808	4,673	6	0	0	5,762

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
10394001-Palo Alto Flood Basin Tide Gate Structure Improvements	343	473	707	384	0	4,556	6	0	0	5,762

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed and Stream Stewardship Fund	5,762
Other Funding Sources	0
Total	5,762

OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined during the design phase.

USEFUL LIFE: 50 Years

Project	**Permanente Creek, San Francisco Bay to Foothill Expressway**
Program	Flood Protection – Lower Peninsula Watershed
Priority No.	67
Project No.	10244001s
District Contact	Melanie Richardson mrichardson@valleywater.org

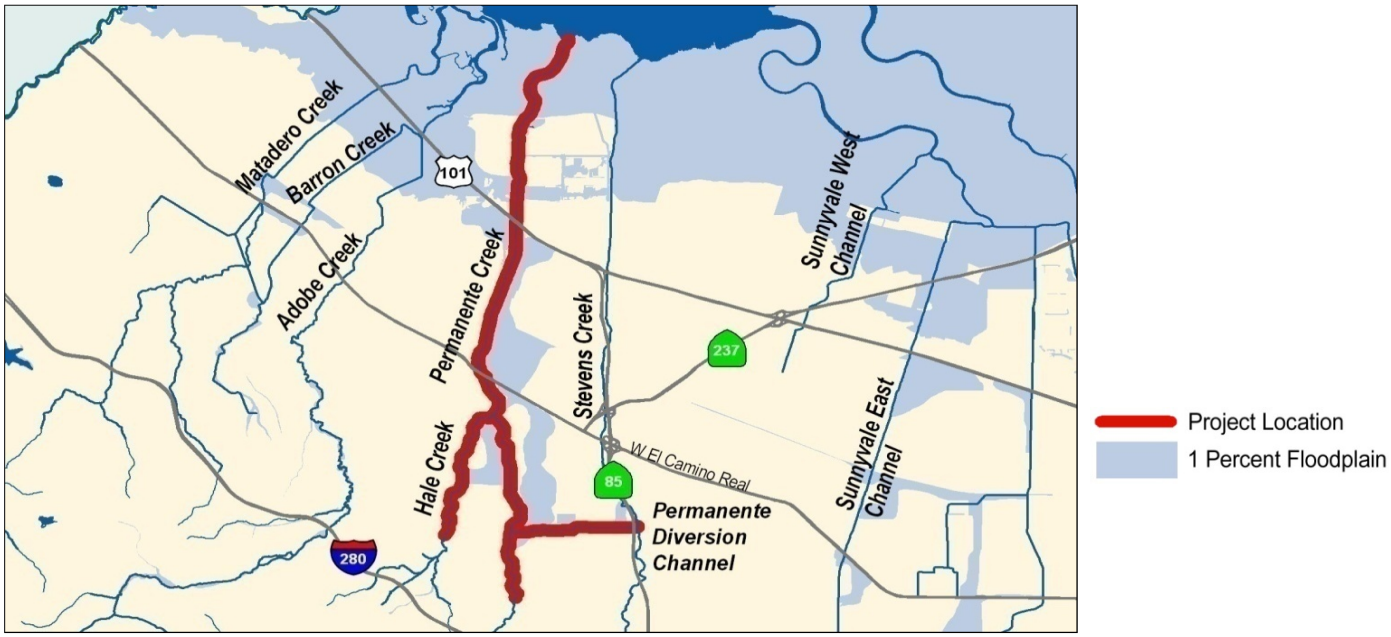
Permanente Creek, looking downstream at the golf course foot bridge

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements along 10.6 miles of Permanente Creek, from San Francisco Bay to Foothill Expressway, Hale Creek from Foothill Expressway to its confluence with Permanente Creek, and the diversion structure between Permanente and Stevens Creeks, to accomplish the following objectives:

- Provide flood protection to 1,664 parcels, including Middlefield Road and Central Expressway.
- Reduce erosion and sedimentation, reduce maintenance costs, and improve safety and stability of the failing channel on Permanente Creek from the San Francisco Bay to Foothill Expressway.
- Provide environmental restoration and enhancement benefits, where opportunities exist.
- Provide recreation enhancements, where opportunities exist.
- Provide natural flood protection by taking a multiple-objective approach.

PROJECT LOCATION

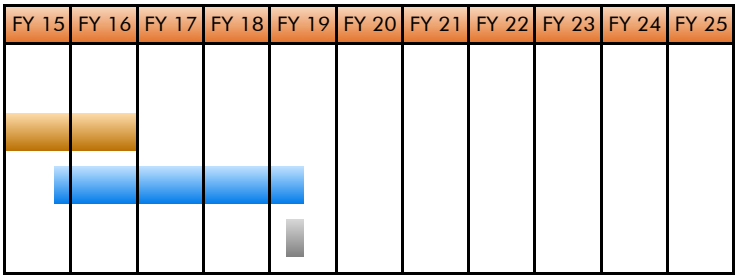


SCHEDULE & STATUS

July 2001 to December 2018

Construction includes multiple contract phases and three years of plant establishment monitoring.

Phase	Cost
Plan	13,082
Design	14,037
Construct	38,575
Closeout	100
	65,794



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
10244001-Permanente Ck, Bay to Foothill Expwy – Lower Peninsula Fund	17,364	0	0	0	0	0	0	0	17,364
with inflation	17,364	0	0	0	0	0	0	0	17,364
26244001-Permanente Ck, Bay to Foothill Expwy – Clean, Safe Creeks Fund	9,639	495	32,434	5,700	250	100	0	0	48,618
with inflation	9,639	495	32,434	6,128	281	117	0	0	49,094
TOTAL	27,003	495	32,434	5,700	250	100	0	0	65,982
with inflation	27,003	495	32,434	6,128	281	117	0	0	66,458

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
10244001-Permanente Ck, Bay to Foothill Expwy – Lower Peninsula Fund	17,541	0	177	0	0	0	0	0	0	17,541
26244001-Permanente Ck, Bay to Foothill Expwy – Clean, Safe Creeks Fund	36,015	9,013	34,894	0	3,668	281	117	0	0	49,094
TOTAL	53,556	9,013	35,071	0	3,668	281	117	0	0	66,635

Adjusted Budget includes adopted budget plus approved budget adjustments. Total Funding exceed total planned expenditures by approximately $177,000. Excess funds will be returned to the fund reserver at the end of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	17,541
SCVWD Clean, Safe Creeks and Natural Flood Protection Fund	49,094
Total	66,635

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $100,000 per year, beginning in FY 2020. Increases in operations and maintenance costs include sediment removal at three flood detention sites, and bypass channel inlet and outlet operations and maintenance.

USEFUL LIFE: 30+ Years

Project	**San Francisquito Creek, San Francisco Bay through Searsville Dam**
Program	Flood Protection – Lower Peninsula Watershed
Priority No.	66
Project No.	10284007s
District Contact	Melanie Richardson mrichardson@valleywater.org

Upstream face of Pope/Chaucer Street with water surface approximately 2 feet below the soffit

PROJECT DESCRIPTION

This project provides coordination and support to the San Francisquito Joint Powers Authority, in partnership with the U.S. Army Corps of Engineers, to complete planning and design documents for an approved project alternative on San Francisquito Creek, from San Francisco Bay through Searsville Dam. This project will accomplish the following objectives:

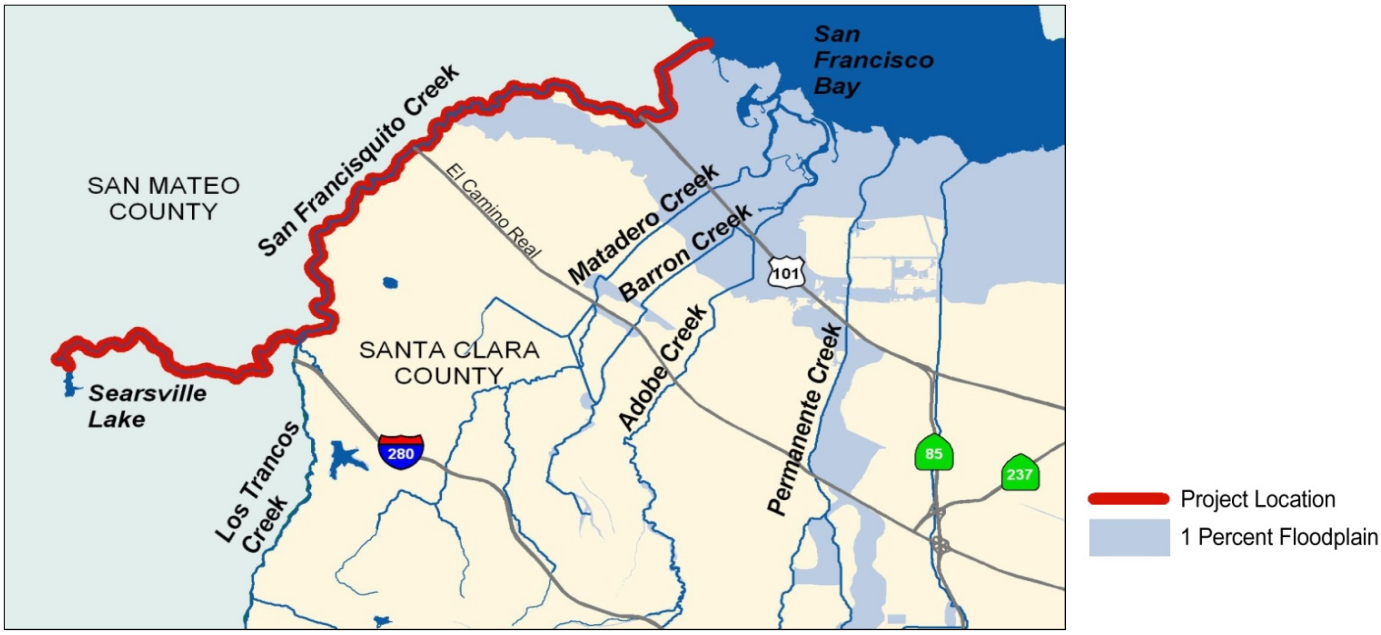
- Provide flood protection.
- Reduce bank erosion and sedimentation-related impacts along San Francisquito Creek.
- Avoid potential adverse impacts on fish and wildlife habitats.
- Minimize impacts to the creek's environmental resources and restore the riparian corridor where feasible.
- Develop public support for the preferred alternative.

The San Francisquito construction project will provide 100-year flood protection from San Francisco Bay to Highway 101 starting in FY16 and replace four bridges between Highway 101 and Middlefield Road with construction starting in FY16.

This project is accounted for in the following job numbers:

- 10284007 – SF Bay through Searsville Dam
- 10284008 – Early Implementation
- 26284001 – SF Bay through Searsville Dam
- 26284002 – Construction - San Francisco Bay to Middlefield Rd.

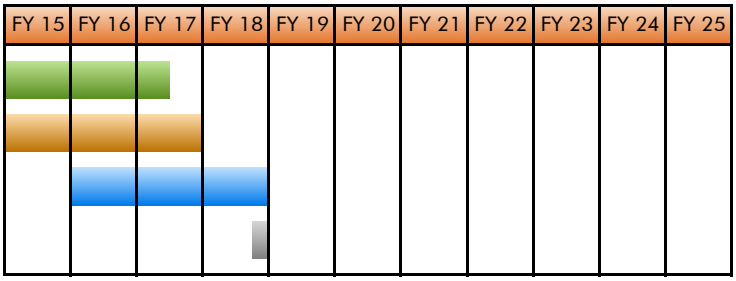
PROJECT LOCATION



SCHEDULE & STATUS

June 2003 to December 2018

Phase	Cost
Plan	4,652
Design	9,180
Construct	42,094
Closeout	100
	56,026



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
10284007-San Francisquito Ck, Bay-Searsville Dam	4,064	0	0	0	0	0	0	0	4,064
with inflation	4,064	0	0	0	0	0	0	0	4,064
10284008-San Francisquito Ck, Early Implementation	1,614	0	0	0	0	0	0	0	1,614
with inflation	1,614	0	0	0	0	0	0	0	1,614
26284001-San Francisquito Ck, Bay-Searsville Dam	4,155	1,379	1,248	50	0	0	0	0	6,832
with inflation	4,155	1,379	1,248	54	0	0	0	0	6,836
26284002-San Francisquito Ck - Construction - SF Bay to Middlefield Rd.	2,516	900	29,006	11,600	1,500	0	0	0	45,522
with inflation	2,516	900	29,006	12,440	1,687	0	0	0	46,550
TOTAL	**12,349**	**2,279**	**30,254**	**11,650**	**1,500**	**0**	**0**	**0**	**58,032**
with inflation	**12,349**	**2,279**	**30,254**	**12,495**	**1,687**	**0**	**0**	**0**	**59,064**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
10284007-San Francisquito Ck, Bay-Searsville Dam	4,918	0	854	0	0	0	0	0	0	4,918
10284008-San Francisquito Ck, Early Implementation	1,614	0	0	0	0	0	0	0	0	1,614
26284001-San Francisquito Ck, Bay-Searsville Dam	6,684	0	1,150	98	54	0	0	0	0	6,836
26284002-San Francisquito Ck - Construction - SF Bay to Middlefield Rd.	19,194	6,440	22,218	6,788	12,440	1,687	0	0	0	46,550
TOTAL	**32,410**	**6,440**	**24,222**	**6,886**	**12,495**	**1,687**	**0**	**0**	**0**	**59,918**

Adjusted Budget includes adopted budget plus approved budget adjustments. Funding exceeds planned expenditures by approximately $854,000. Excess funding will be returned to reserves upon completion of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	6,532
SCVWD Safe, Clean Water and Natural Flood Protection Fund	45,386
San Francisquito Joint Powers Authority (DWR)	8,000
Total	**59,918**
U.S. Army Corps of Engineers - In-kind Services	3,000
County of San Mateo - In-kind Services	1,500

County and Corps participation are for Feasibility Study activities only.
Additional funding will be negotiated during subsequent phases.

OPERATING COST IMPACTS

No operating budget impacts are expected from the construction of this project.

USEFUL LIFE: Not Available

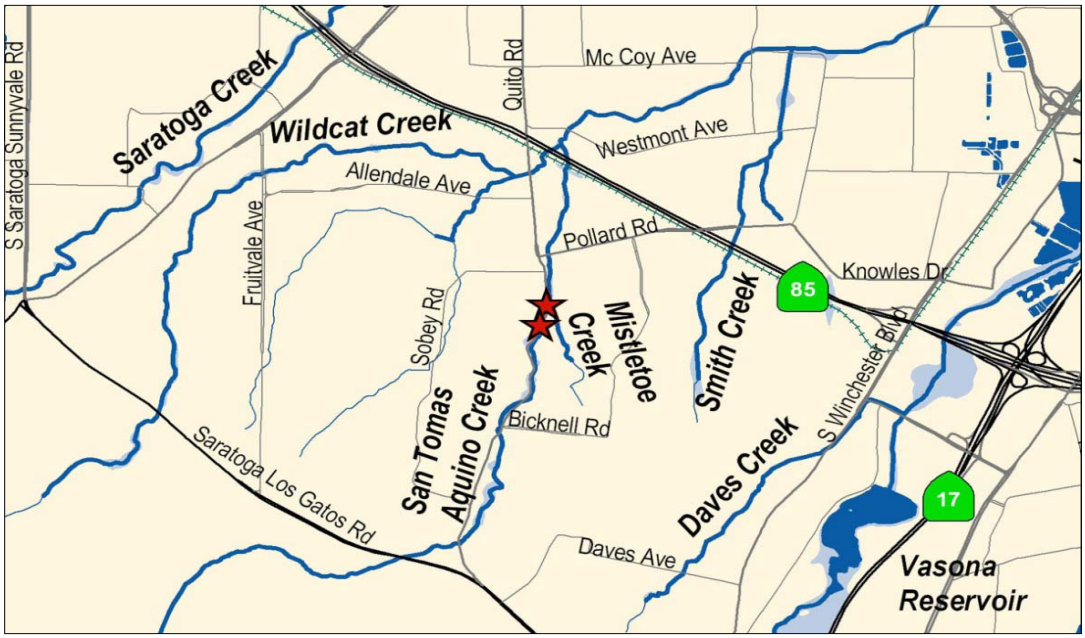
Project	**San Tomas Creek, Quito Road Bridges Replacement**
Program	Flood Protection - West Valley Watershed
Priority No.	65
Project No.	20194005
District Contact	Liang Lee llee@valleywater.org

San Tomas Aquino Creek, looking upstream at one of the Quito Road bridge crossings and an adjacent pedestrian footbridge.

PROJECT DESCRIPTION

This project partners with the City of Saratoga, the Town of Los Gatos, and Caltrans to plan, design, and construct two bridge replacements on San Tomas Aquino Creek at Quito Road, to provide one-percent flood protection.

PROJECT LOCATION

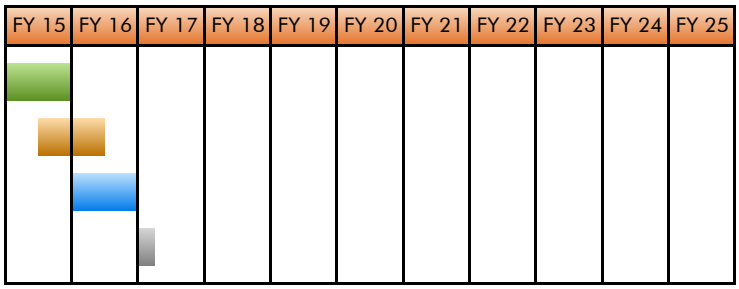


★ Project Location

SCHEDULE & STATUS

July 2001 to September 2016

Phase	Cost
Plan	-
Design	99
Construct	166
Closeout	25
	290



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
20194005-San Tomas Creek, Quito Road Bridges Replacement	292	99	166	25	0	0	0	0	582
with inflation	292	99	166	27	0	0	0	0	584

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
20194005-San Tomas Creek, Quito Road Bridges Replacement	292	99	0	166	27	0	0	0	0	584

Adjusted Budget includes adopted budget plus a planned budget adjustment of $99,000.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	584
Other Funding Sources	0
Total	**584**
City of Saratoga	300
Town of Los Gatos	300
Caltrans (Highway Bridge Replacement and Rehabilitation Program) - 80%	4,115

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease District operating costs as the facility is owned by the City of Saratoga.

USEFUL LIFE: 30+ Years

Project	**Sunnyvale East and West Channels Improvement**
Program	Flood Protection – West Valley Watershed
Priority No.	51
Project No.	26074002
District Contact	Melanie Richardson mrichardson@valleywater.org

Sunnyvale West Channel looking upstream from Java Drive

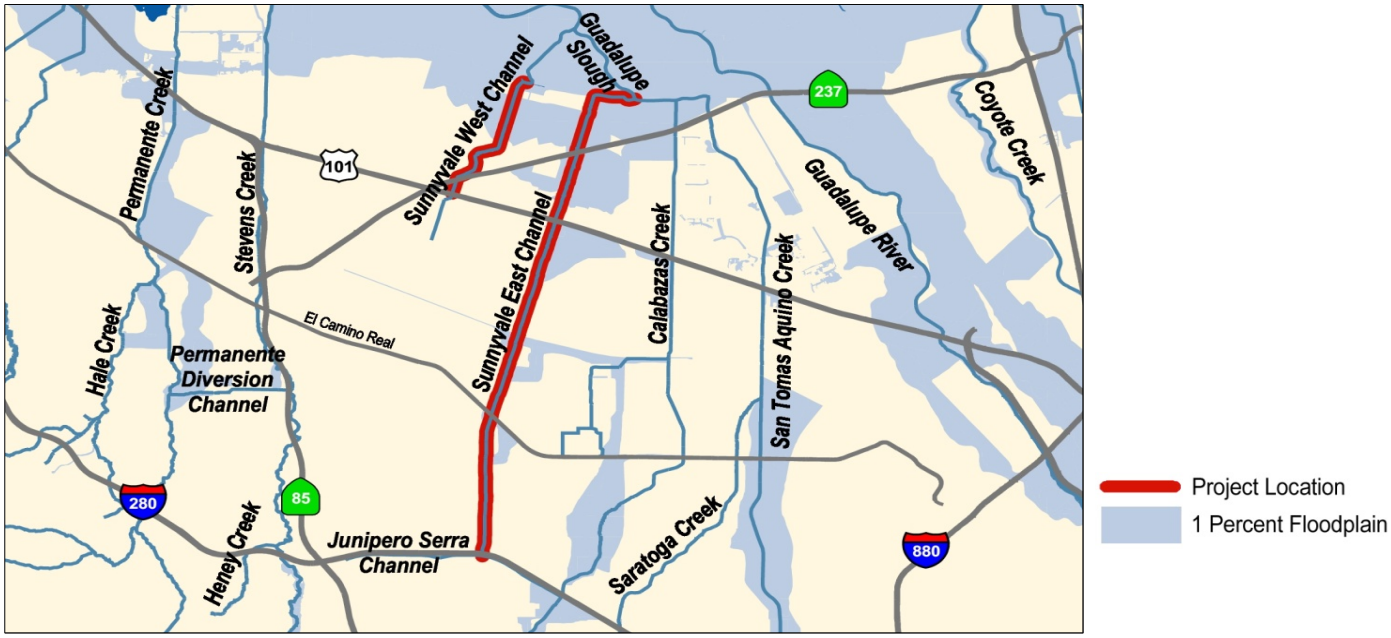
PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to approximately 6.4 miles of the Sunnyvale East Channel, from Guadalupe Slough to Interstate 280, and 2.3 miles of the Sunnyvale West Channel, from Guadalupe Slough to Highway 101, to accomplish the following objectives:

- Provide flood protection to over 1,600 parcels along Sunnyvale East and West Channels.
- Provide environmental enhancement benefits where opportunities exist.
- Provide recreation enhancements where opportunities exist.
- Reduce erosion, sedimentation, and maintenance costs.
- Protect fish and wildlife habitat.

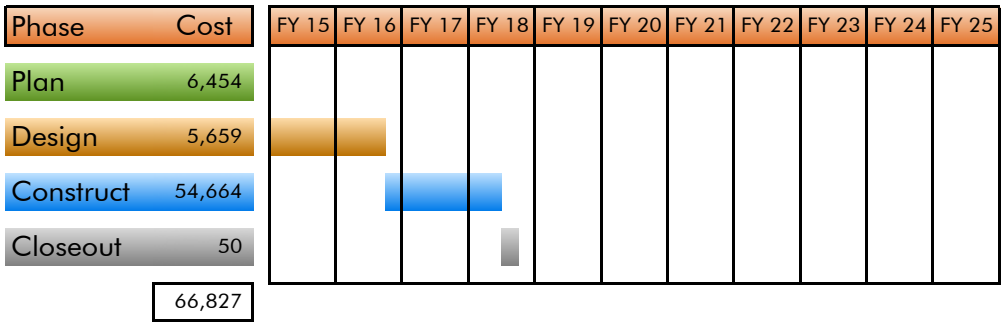
The Sunnyvale East and Sunnyvale West Channels were originally identified as separate projects. In order to improve efficiency by combining efforts, the planning, design and construction phases for both projects will be performed as a single effort.

PROJECT LOCATION



SCHEDULE & STATUS

March 2006 to March 2018



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
26074002-Sunnyvale East and West Channels Improvement	12,124	1,701	32,352	20,600	50	0	0	0	66,827
with inflation	12,124	1,701	32,352	22,077	56	0	0	0	68,310

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
26074002-Sunnyvale East and West Channels Improvement	28,234	17,644	32,053	299	22,077	56	0	0	0	68,310

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Clean, Safe Creeks and Natural Flood Protection Fund	68,310
Other Funding Source	0
Total	68,310

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $50,000 per year, beginning in FY 2019. Increases in operations and maintenance costs include graffiti removal, mowing and weed control under the levees, and for operation and maintenance of the Pond A4 detention basin.

USEFUL LIFE: 30+ Years

Project	**Canoas Creek Rodent Damage Repair**
Program	Flood Protection - Guadalupe Watershed
Priority No.	51
Project No.	30114002
District Contact	Melanie Richardson mrichardson@valleywater.org

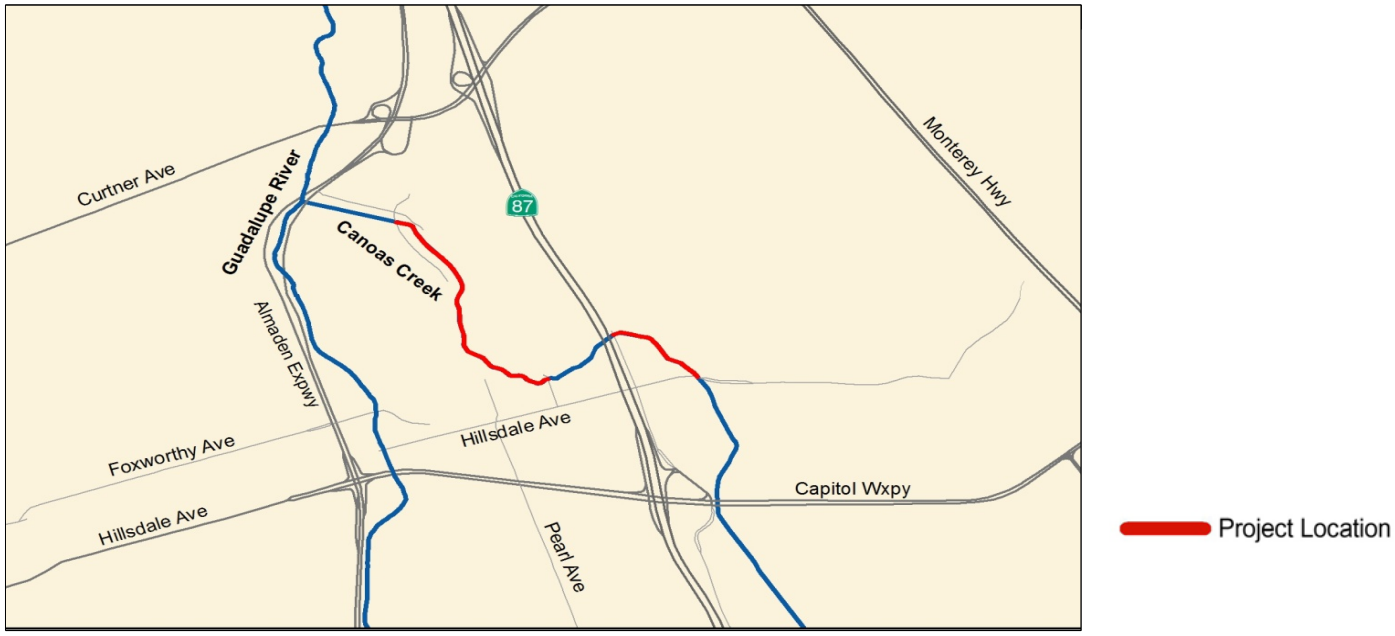
View of damage caused by burrowing animlas along Canoas Creek in the Guadalupe Watershed

PROJECT DESCRIPTION

This project plans, designs, and constructs repairs to Canoas Creek to accomplish the following objectives:

- Repair approximately 1 mile of damaged creek's levee and embankment.
- Reduce frequent maintenance costs associated with routine bank erosion repair projects.
- Reduce the risk of levee/bank slope failure due to damage caused from burrowing animals

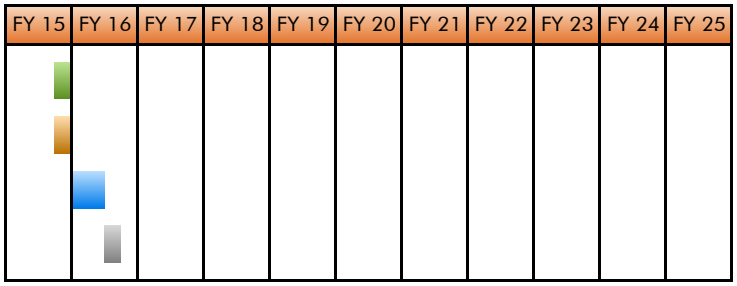
PROJECT LOCATION



SCHEDULE & STATUS

May 2015 to January 2016

Phase	Cost
Plan	150
Design	200
Construct	3,954
Closeout	25
	4,329



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
30114002-Canoas Creek Rodent Damage Repair	0	300	4,029	0	0	0	0	0	4,329
with inflation	0	300	4,029	0	0	0	0	0	4,329

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
30114002-Canoas Creek Rodent Damage Repair	0	300	0	4,029	0	0	0	0	0	4,329

Adjusted Budget includes adopted budget plus a planned budget adjustment of $300,000.

FUNDING SOURCES

(in thousands $)

Watershed Stream Stewardship	4,329
Other Funding Sources	0
Total	4,329

OPERATING COST IMPACTS

Operating cost impacts will be determined during the construction phase.

USEFUL LIFE: Not Available

Project	**Guadalupe River–Upper, Interstate 280 to Blossom Hill Road**
Program	Flood Protection – Guadalupe Watershed
Priority No.	89
Project No.	26154001s
District Contact	Melanie Richardson mrichardson@valleywater.org

Flooding from Guadalupe River on Willow Street near the Southern Pacific Railroad Bridge

PROJECT DESCRIPTION

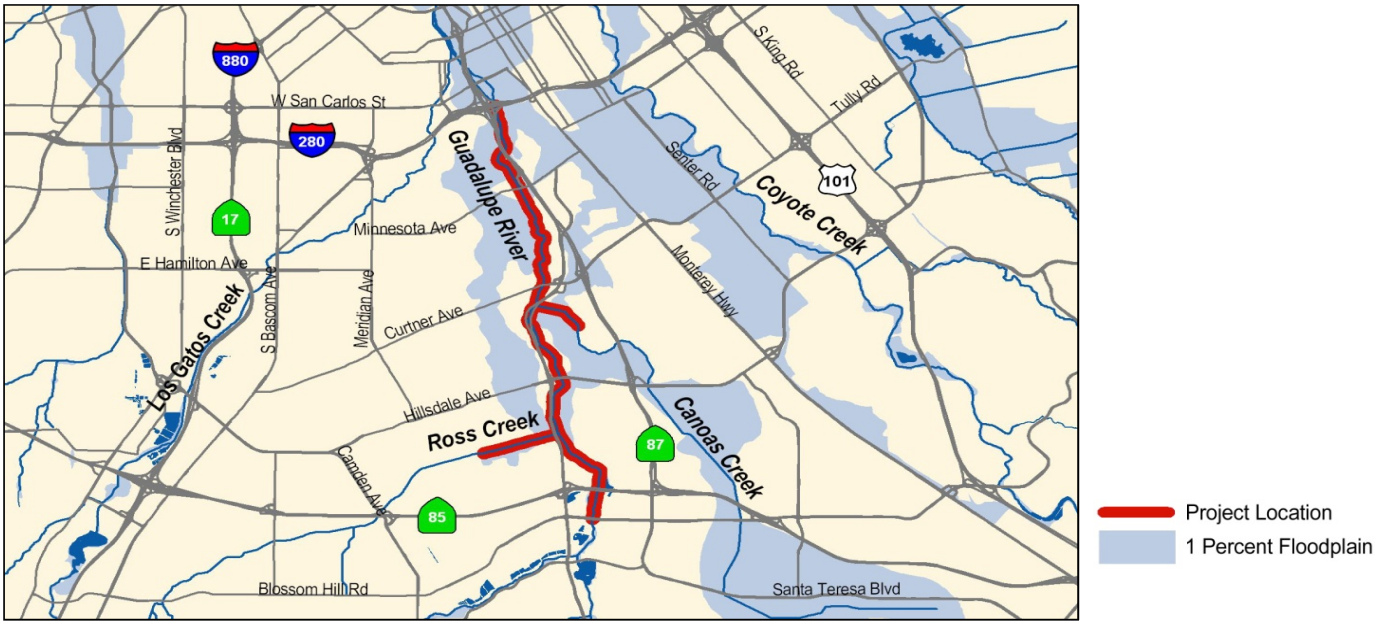
This project partners with the U.S. Army Corps of Engineers (Corps) to plan, design, and construct improvements along approximately 6 miles of the Guadalupe River, from Interstate 280 to Blossom Hill Road, to accomplish the following objectives:

- Provide one-percent flood protection to nearly 7,000 parcels along the Guadalupe River, from I-280 to Blossom Hill Road, including portions of Ross Creek and Canoas Creek.
- Provide long-term net gains of 15 acres in riparian forest acreage, quality, and continuity of wildlife habitat, and conditions favoring Chinook salmon and steelhead trout.
- Provide access to an additional 19 miles of suitable upstream spawning and rearing habitat, which would result in significant long-term beneficial impacts on fisheries resources.
- Coordinate with the City of San Jose and the community to establish a continuous maintenance road suitable for trail development between Interstate 280 and Los Alamitos Creek.
- Improve water quality by reducing bank erosion and sedimentation-related impacts along the river and tributaries.
- Address and resolve permit coordination activities and watershed integration issues through the Guadalupe Watershed Integration Working Group.

This project is accounted for in the following job numbers:

- 26154001—Fish Passage Modification (Completed)
- 26154002—I-280 to Southern Pacific Railroad Bridge (Reach 6)
- 26154003—Southern Pacific Railroad Bridge to Blossom Hill Road (Reaches 7-12)

PROJECT LOCATION

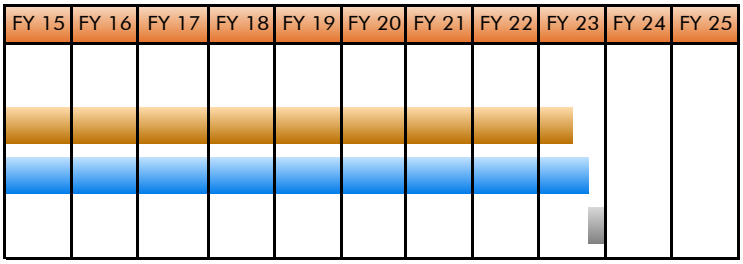


SCHEDULE & STATUS

July 2001 to June 2023

Planning phase is complete. Design and construction of eight individual reaches are being done sequentially.

Phase	Cost
Plan	10,942
Design	82,017
Construct	77,372
Closeout	167
	n/a



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
26154001-Guadalupe Rv—Upr, Fish Passage Mods	2,651	0	0	0	0	0	0	0	2,651
with inflation	2,651	0	0	0	0	0	0	0	2,651
26154002-Guadalupe Rv—Upr, I-280 to SPRR (R6)	32,074	1,835	594	0	0	0	0	0	34,503
with inflation	32,074	1,835	594	0	0	0	0	0	34,503
26154003-Guadalupe Rv—Upper, SPRR to Blossom Hill Rd. (R7-12)	37,512	13,962	5,382	32,735	7,035	9,035	9,085	11,320	126,066
with inflation	37,512	13,962	5,382	35,122	7,913	10,586	11,088	14,573	136,139
Actuals in closed project numbers	7,887	0	0	0	0	0	0	0	7,887
with inflation	7,887	0	0	0	0	0	0	0	7,887
TOTAL	**80,124**	**15,797**	**5,976**	**32,735**	**7,035**	**9,035**	**9,085**	**11,320**	**171,107**
with inflation	**80,124**	**15,797**	**5,976**	**35,122**	**7,913**	**10,586**	**11,088**	**14,573**	**181,180**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
26154001-Guadalupe Rv—Upr, Fish Passage Mods	2,651	0	0	0	0	0	0	0	0	2,651
26154002-Guadalupe Rv—Upr, I-280 to SPRR (R6)	33,815	386	292	302	0	0	0	0	0	34,503
26154003-Guadalupe Rv—Upper, SPRR to Blossom Hill Rd. (R7-12)	67,840	0	16,366	0	24,138	7,913	10,586	11,088	14,573	136,139
Actuals in closed project numbers	7,887	0	0	0	0	0	0	0	0	7,887
TOTAL	**112,193**	**386**	**16,658**	**302**	**24,138**	**7,913**	**10,586**	**11,088**	**14,573**	**181,180**

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Clean, Safe Creeks and Natural Flood Protection Fund	124,052
SCVWD Watershed Stream Stewardship Fund	12,000
SCVWD Safe, Clean Water and Natural Flood Protection Fund	19,743
State of California	21,600
City of San Jose	3,785
Total	**181,180**
U.S. Army Corps of Engineers - In-kind Services	188,000

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $480,000 per year, beginning in FY 2020, for mitigation and monitoring labor and equipment, implementation of adaptive management measures, and operations and maintenance in accordance with the Corps Operations and Maintenance Manual.

USEFUL LIFE: 30+ Years

Project	**Berryessa Creek, Calaveras Boulevard to Interstate 680**
Program	Flood Protection – Coyote Watershed
Priority No.	78
Project No.	26174041s
District Contact	Melanie Richardson mrichardson@valleywater.org

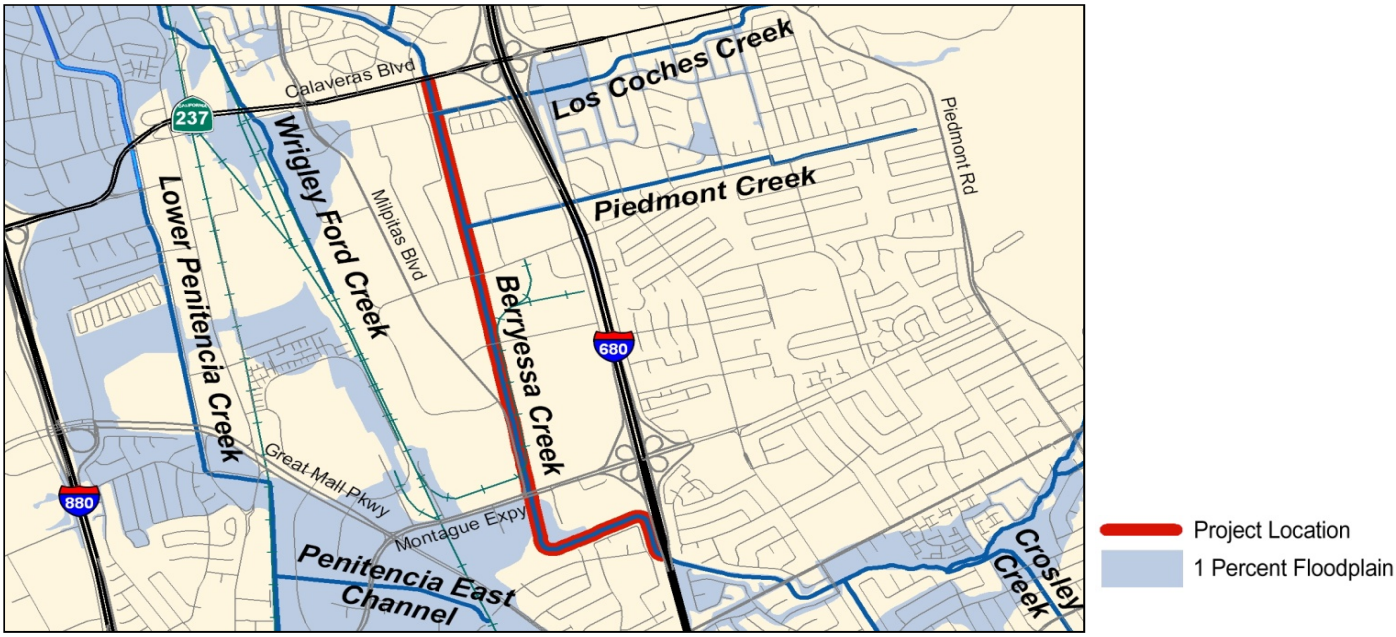
Berryessa Creek near flood stage at Piedmont Road in San Jose

PROJECT DESCRIPTION

This project partners with the U.S. Army Corps of Engineers (Corps) to plan, design, and construct improvements along approximately 2 miles of Berryessa Creek, from Calaveras Boulevard to Interstate 680, to accomplish the following objectives:

- Provide one-percent flood protection to more than 1,800 homes, businesses, and public buildings.
- Reduce sedimentation and maintenance requirements.
- Mitigate for project impacts.
- Improve stream habitat values.
- Coordinate with the cities of San Jose and Milpitas, and the community to establish a continuous maintenance road suitable for trail development along the Berryessa Creek project.
- Obtain a Letter of Map Revision (LOMR) from the Federal Emergency Management Agency (FEMA).
- Incorporate the District's Clean, Safe Creeks and Natural Flood Protection Program Objectives.

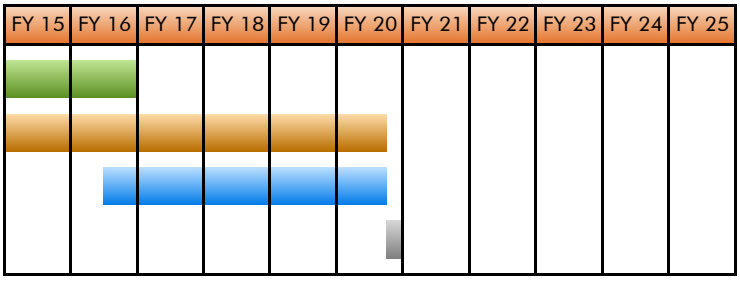
PROJECT LOCATION



SCHEDULE & STATUS

January 2000 to June 2020

Phase	Cost
Plan	8,804
Design	8,385
Construct	30,538
Closeout	203
	47,930



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
26174041-Berryessa Creek, Corps Coordination	8,260	1,121	2,629	12,822	850	850	724	0	27,256
with inflation	8,260	1,121	2,629	13,741	956	1,000	893	0	28,600
26174042-Berryessa Creek, LERRDs	14,447	3,037	3,190	0	0	0	0	0	20,674
with inflation	14,447	3,037	3,190	0	0	0	0	0	20,674
TOTAL	**22,707**	**4,158**	**5,819**	**12,822**	**850**	**850**	**2,341**	**0**	**47,930**
with inflation	**22,707**	**4,158**	**5,819**	**13,741**	**956**	**1,000**	**893**	**0**	**49,274**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
26174041-Berryessa Creek, Corps Coordination	9,375	6	0	2,629	13,741	956	1,000	893	0	28,600
26174042-Berryessa Creek, LERRDs	19,464	0	1,980	1,210	0	0	0	0	0	20,674
TOTAL	**28,839**	**6**	**1,980**	**3,839**	**13,741**	**956**	**1,000**	**893**	**0**	**49,274**

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Clean, Safe Creeks and Natural Flood Protection Fund	17,800
State of California	21,474
Department of Water Resources (Prop 1E)	10,000
Total	**49,274**
U.S. Army Corps of Engineers - In-kind Services	13,600

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $80,000 per year, beginning in FY 2021, to maintain approximately 2 miles of new levees and flood walls, and for activities such as vegetation spraying and graffiti removal.

USEFUL LIFE: 30+ Years

Project	**Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard**
Program	Flood Protection – Coyote Watershed
Priority No.	53
Project No.	40174004s
District Contact	Melanie Richardson mrichardson@valleywater.org

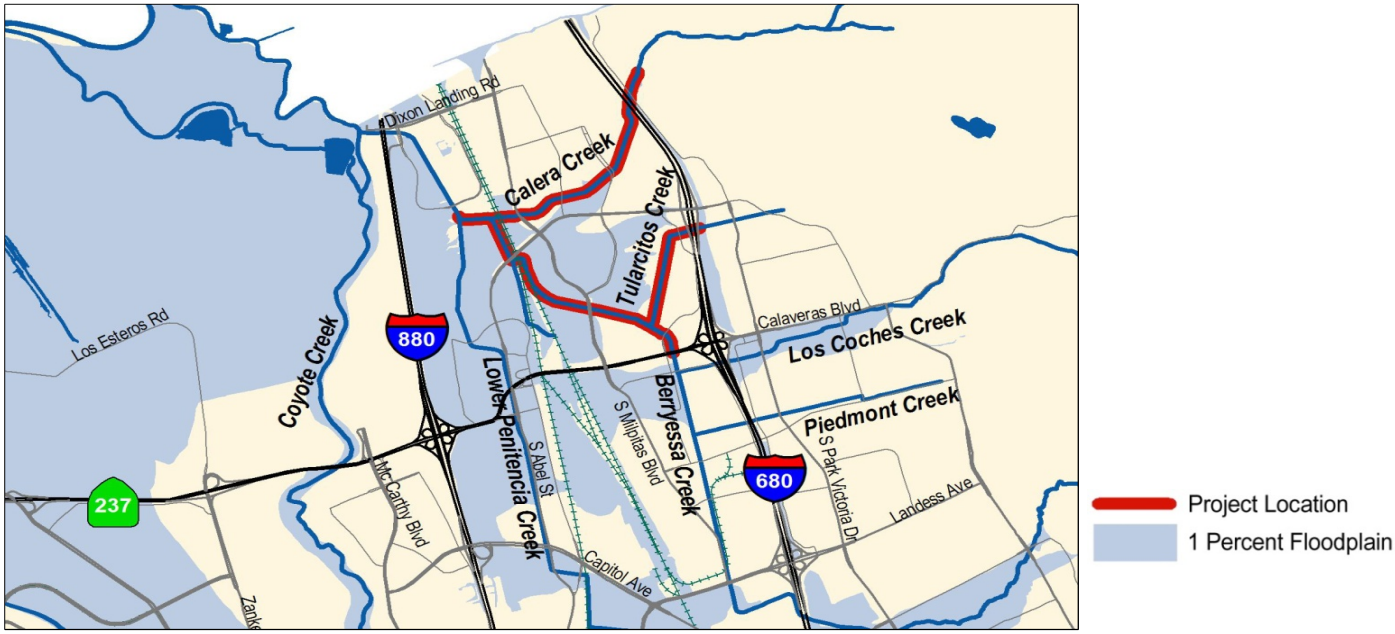
Berryessa Creek upstream of the confluence with Lower Penitencia Creek

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements along approximately 3 miles of Berryessa Creek and its tributaries, from the confluence with Lower Penitencia Creek to Calaveras Boulevard (Phase 1 and 2) and the lower reaches of both Calera and Tularcitos Creeks (Phase 3), to accomplish the following objectives:

- Provide one-percent flood protection to 1,800 homes, businesses, and public buildings in the surrounding area.
- Improve the structural integrity of the levees.
- Improve maintenance access and safety for District staff.
- Identify opportunities to integrate recreation inputs consistent with the City of Milpitas' Trail Master Plan.
- Obtain a Letter of Map Revision (LOMR) from the Federal Emergency Management Agency (FEMA).
- Incorporate the District's Clean, Safe Creeks and Natural Flood Protection (NFP) Program Objectives.

PROJECT LOCATION

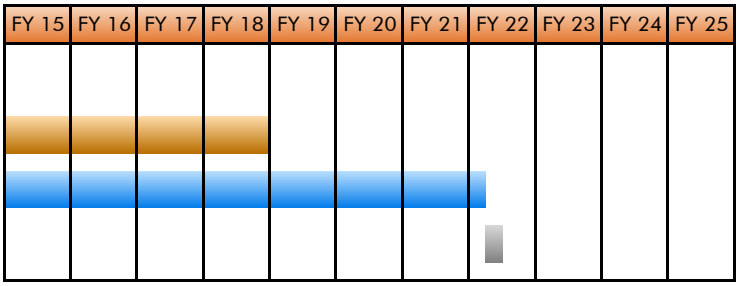


SCHEDULE & STATUS

March 2001 to December 2021

Planning phase is complete. Construction includes three phases and three years of plant establishment monitoring.

Phase	Cost
Plan	8,157
Design	8,537
Construct	61,912
Closeout	89
	78,695



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
40174004-Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard Phase 1	29,749	22,129	2,200	1,180	142	132	172	0	55,704
with inflation	29,749	22,129	2,200	1,276	160	154	209	0	55,878
40174005-Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard Phase 2	0	0	20,226	1,419	1,030	92	92	132	22,991
with inflation	0	0	20,226	1,535	1,159	108	112	167	23,306
TOTAL	**29,749**	**22,129**	**22,426**	**2,599**	**1,172**	**224**	**264**	**132**	**78,695**
with inflation	**29,749**	**22,129**	**22,426**	**2,811**	**1,318**	**262**	**321**	**167**	**79,184**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
40174004-Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard Phase 1	39,879	27,812	15,813	0	0	0	0	0	0	67,691
40174005-Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard Phase 2	0	0	0	20,226	1,535	1,159	108	112	167	23,306
TOTAL	**39,879**	**27,812**	**15,813**	**20,226**	**1,535**	**1,159**	**108**	**112**	**167**	**90,997**

Adjusted Budget includes adopted budget plus approved budget adjustments. Approved budget exceed planned expenditures by approximately $11,814,000. Excess funds will be returned to fund reserves at the end of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	75,997
Department of Water Resources (Prop 1E)	15,000
Total	**90,997**

OPERATING COST IMPACTS

The completion of this project is anticipated to increase annual operating costs by approximately $100,000 per year. Operating costs will increase with completion of construction of each of 3 phases: beginning with a $50,000 increase in FY 2016 (with completion of Phase 1), increasing to $65,000 in FY 2017 (with completion of Phase 2), and finally increasing to $100,000 with the completion of Phase 3. These costs will be for increased maintenance activities such as sediment removal, vegetation management, levee maintenance, graffiti abatement, and trash & debris cleanup.

USEFUL LIFE: 30+ Years

Project	**Coyote Creek, Montague Expressway to Interstate 280**
Program	Flood Protection – Coyote Watershed
Priority No.	64
Project No.	26174043
District Contact	Melanie Richardson mrichardson@valleywater.org

Flooding from Coyote Creek on 17th Street near downtown San Jose in January 1997

PROJECT DESCRIPTION

This project plans, designs, and partially constructs improvements along approximately 6.1 miles of Coyote Creek, from Montague Expressway to Interstate 280, to accomplish the following objectives:

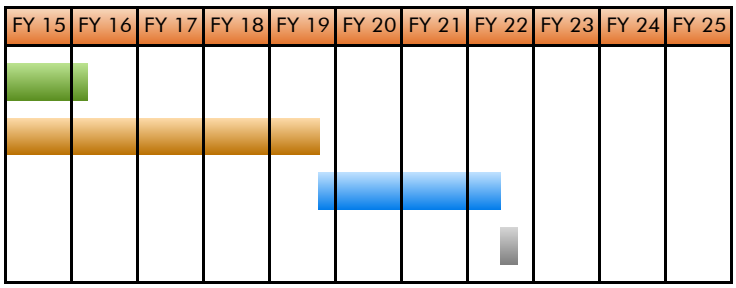
- Provide flood protection to the surrounding area.
- Mitigate for project impacts to stream habitat and fisheries.
- Develop a continuous maintenance road that is consistent and supportive of the city's Coyote Creek Trail master plans.
- Identify stream habitat enhancement and/or restoration opportunities.
- Identify opportunities to improve water quality within the project limits.
- Identify opportunities to provide for public recreation and access.
- Create a self-sustaining system within the project limits, to reduce long-term operations and maintenance costs.
- Obtain community support.

PROJECT LOCATION

SCHEDULE & STATUS

September 2002 to January 2022

Phase	Cost
Plan	10,019
Design	6,977
Construct	15,583
Closeout	206
	32,785



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
26174043-Coyote Creek, Montague Expressway to Interstate 280	10,520	2,080	2,068	1,190	1,366	13,455	865	1,265	32,809
with inflation	10,520	2,080	2,068	1,285	1,537	15,874	1,052	1,630	36,046

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
26174043-Coyote Creek, Montague Expressway to Interstate 280	30,486	0	17,886	0	0	0	2,877	1,052	1,630	36,046

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Clean, Safe Creeks and Natural Flood Protection Fund	36,046
Other Funding Source	0
Total	36,046

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $100,000 per year, beginning in FY 2023. Currently the District has limited and sporadic property rights within the project limits along the creek, and ongoing maintenance costs are relatively small. Project implementation may include acquisition of continuous right of way for construction and future operations and maintenance.

USEFUL LIFE: 30+ Years

Project	**Cunningham Flood Detention Certification**
Program	Flood Protection – Coyote Watershed
Priority No.	56
Project No.	40264011
District Contact	Melanie Richardson mrichardson@valleywater.org

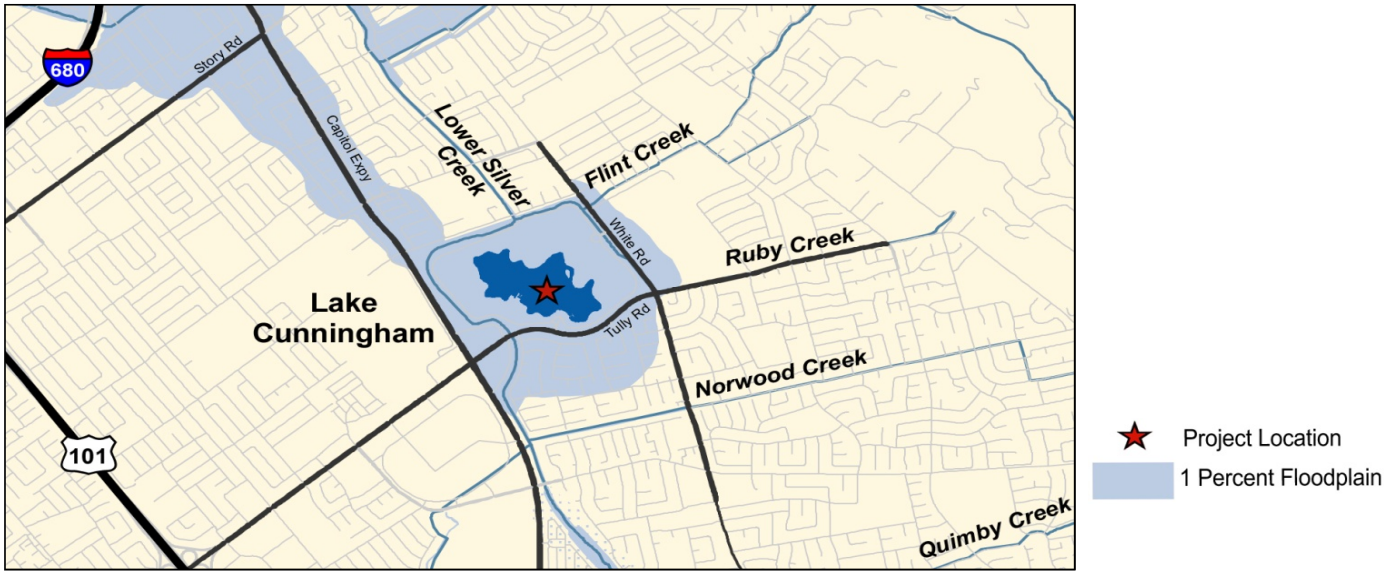
Flooding from Lower Silver Creek in February 1969 at the future site of Lake Cunningham Regional Park

PROJECT DESCRIPTION

This project plans, designs, and constructs final improvements at Lake Cunningham Regional Park (Park) to ensure the site operates as a flood detention facility in accordance with the 1978 agreement with the City of San Jose (City) and to ensure the Lower Silver Creek Project (LSC Project) improvements downstream of Cunningham Avenue function as designed. This project will accomplish the following objectives:

- Validate that the flood detention facility can attenuate the volume of water associated with 2,249 cfs below the park land elevation as stipulated in the 1978 Joint Use Agreement between the City and the District.
- Obtain Federal Emergency Management Agency (FEMA) certification of theflood detention facility and Lower Silver Creek improvements north of the Park to revise the applicable flood insurance rate maps in the Lower Silver Creek 1-percent floodplain near the north of the Park.
- Update the 1978 Joint Use Agreement between the City and the District to meet the flood detention facility's validated condition.

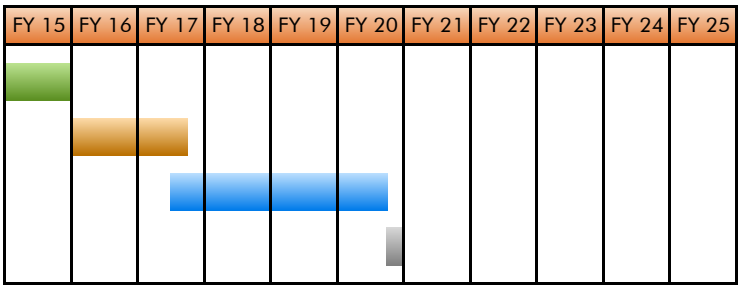
PROJECT LOCATION



SCHEDULE & STATUS

August 1999 to June 2020

Phase	Cost
Plan	2,476
Design	1,753
Construct	8,701
Closeout	10
	12,940



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
40264011-Cunningham Flood Detention Certification	938	750	1,586	3,081	4,150	2,225	210	0	12,940
with inflation	938	750	1,586	3,740	4,169	2,263	255	0	13,701

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
40264011-Cunningham Flood Detention Certification	2,717	1,741	2,770	0	2,556	4,169	2,263	255	0	13,701

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	13,701
Other Funding Source	0
Total	13,701

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operations costs. The project is within District jurisdiction and it is designed to minimize maintenance activities such as sediment removal, so as to have minimal or no additional impact to the operating budget.

USEFUL LIFE: 30+ Years

Project	**Lower Penitencia Creek Improvements, Berryessa to Coyote Creeks**
Program	Flood Protection – Coyote Watershed
Priority No.	52
Project No.	40334005
District Contact	Melanie Richardson mrichardson@valleywater.org

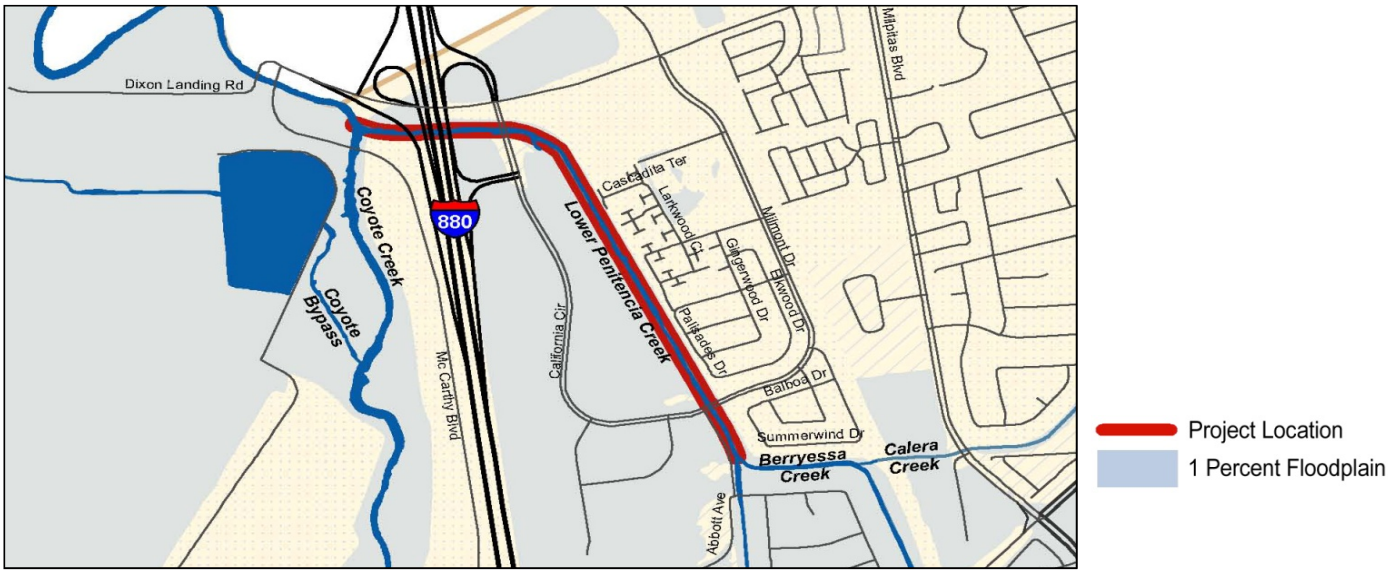
Lower Penitencia Creek, looking downstream from Milmont Drive

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements along approximately 1 mile of Lower Penitencia Creek from the downstream confluence with Coyote Creek to the upstream confluence with Lower Berryessa Creek, to accomplish the following objectives:

- Provide one-percent flood protection along the creek.
- Identify opportunities for environmental enhancement, such as stream restoration, trails, parks, and open space for District Board consideration.
- Minimize impacts to environmental resources and provide opportunities to protect and enhance existing riparian habitat.

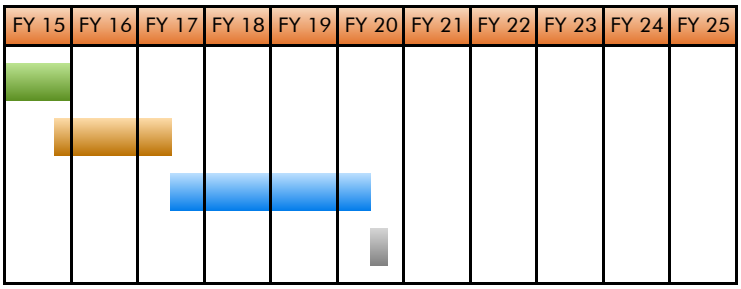
PROJECT LOCATION



SCHEDULE & STATUS

October 2010 to February 2020

Phase	Cost
Plan	3,040
Design	4,615
Construct	12,000
Closeout	15
	19,670



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
40334005-Lower Penitencia Creek Improvements, Berryessa to Coyote Creeks	1,057	1,895	3,848	855	6,000	6,000	15	0	19,670
with inflation	1,057	1,895	3,848	925	8,246	6,000	18	0	21,989

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
40334005-Lower Penitencia Creek Improvements, Berryessa to Coyote Creeks	2,912	1,895	1,855	1,993	925	8,246	6,000	18	0	21,989

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	16,989
Department of Water Resources (Prop 1E)	5,000
Total	21,989

OPERATING COST IMPACTS

Operating cost impacts will be established during the design phase.

USEFUL LIFE: 50 Years

Project	**Lower Silver Creek, I-680 to Cunningham Avenue (R4-6)**
Program	Flood Protection – Coyote Watershed
Priority No.	80
Project No.	40264007s
District Contact	Chris Elias celias@valleywater.org

Lower Silver Creek looking upstream from Capital Expressway

PROJECT DESCRIPTION

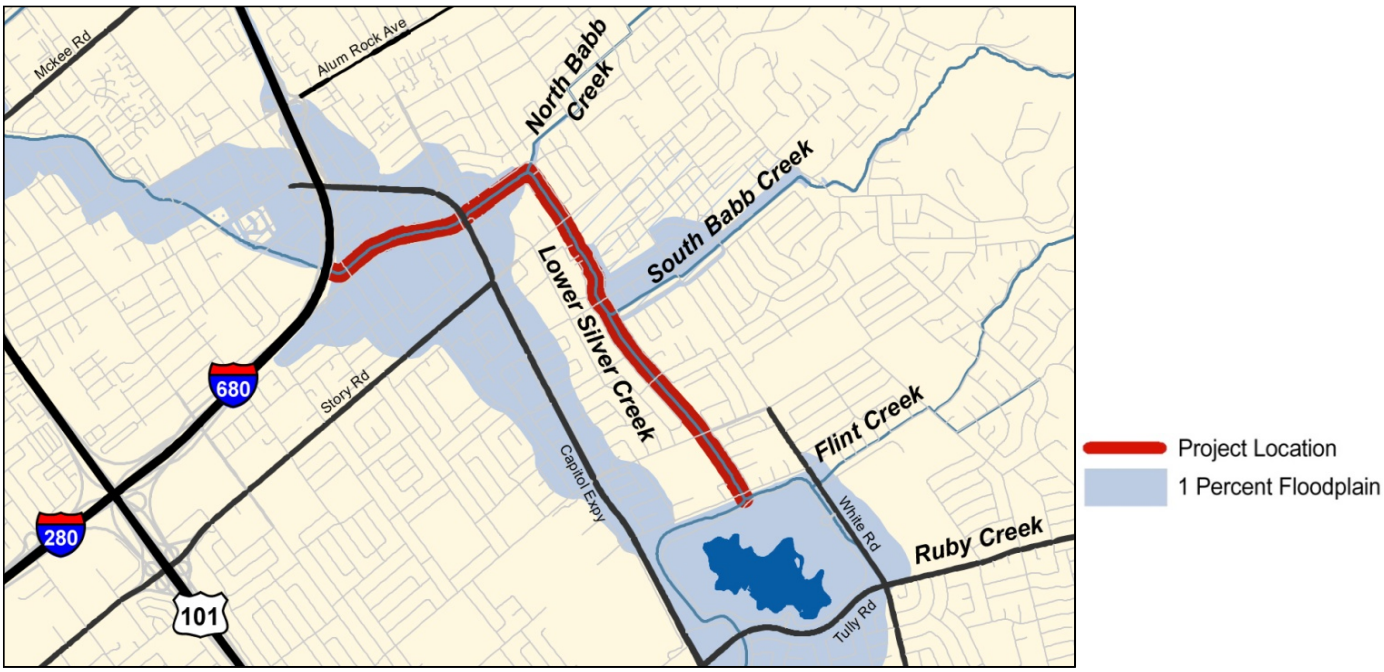
This project is part of a flood control project that partners with the Natural Resource Conservation Service (NRCS) to plan, design and construct improvements along approximately 2.3 miles of Lower Silver Creek, from Interstate 680 to Lake Cunningham. This project includes elements that are eligible for reimbursement from the state and federal governments to accomplish the following objectives:

- Increase flood protection to 3,800 parcels in the surrounding area.
- Allow for on-site mitigation of project impacts, and in some cases enhancement of existing habitat values by increased wetlands and riparian habitat.
- Improve vehicle and pedestrian bridges crossing Lower Silver Creek.
- Develop the footprint for a future trail project between Capitol Avenue-Frontage Road and Jackson Avenue that ensures pedestrians and bicyclists may travel beneath the Dobern Pedestrian Bridge.

This project is accounted for in the following job numbers:

- 40264007–Lower Silver Creek, I-680 to N. Babb Rd. (Reach 4 Planning) - Completed
- 40264008–Lower Silver Creek, I-680 to Cunningham Rd. (Reaches 4-6)
- 40264012–Lower Silver Creek (Reaches 4-6) Reimbursable

PROJECT LOCATION

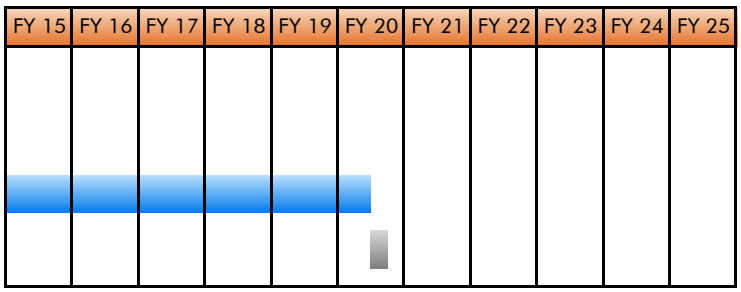


SCHEDULE & STATUS

August 1991 to March 2020

Planning and Design phases are complete

Phase	Cost
Plan	6,440
Design	10,670
Construct	80,065
Closeout	121
	97,296



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
40264007-Lower Silver Creek, Reach 4 Planning	2,371	0	0	0	0	0	0	0	2,371
with inflation	2,371	0	0	0	0	0	0	0	2,371
40264008-Lower Silver Ck, Nonreimbursable (R4-6)	85,363	2,949	3,193	440	255	50	10	0	92,260
with inflation	85,363	2,949	3,193	476	287	59	12	0	92,339
40264012-Lower Silver Creek, LERRDs (R4-6)	1,780	68	627	50	50	50	40	0	2,665
with inflation	1,780	68	627	54	56	58	49	0	2,692
TOTAL	89,514	3,017	3,820	490	305	100	50	0	97,296
with inflation	89,514	3,017	3,820	530	343	117	61	0	97,402

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
40264007-Lower Silver Creek, Reach 4 Planning	2,371	0	0	0	0	0	0	0	0	2,371
40264008-Lower Silver Ck, Nonreimbursable (R4-6)	85,291	4,730	1,709	1,484	476	287	59	12	0	92,339
40264012-Lower Silver Creek, LERRDs (R4-6)	2,912	0	1,064	0	0	0	0	0	0	2,912
TOTAL	90,574	4,730	2,773	1,484	476	287	59	12	0	97,622

Adjusted Budget includes adopted budget plus approved budget adjustments. Approved budget exceeds planned expenditures by approximately $219,000. Excess funds will be returned to fund reserves at the end of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	44,084
State of California	7,862
Natural Resource Conservation Service - ARRA	20,676
California Department of Water Resources	25,000
Total	97,622

OPERATING COST IMPACTS

Operating budget impacts from construction of this project are expected to be insignificant. Repair of several erosion sites will reduce maintenance needs, but will not affect overall sediment removal or vegetation control practices.

USEFUL LIFE: 50+ Years

Project	**Upper Penitencia Creek, Coyote Creek to Dorel Drive**
Program	Flood Protection – Coyote Watershed
Priority No.	91
Project No.	40324003s
District Contact	Melanie Richardson mrichardson@valleywater.org

Flooding at King Road on Upper Penitencia Creek

PROJECT DESCRIPTION

This project partners with the U.S. Army Corps of Engineers (Corps) to plan, design, and construct improvements along approximately 4.2 miles of Upper Penitencia Creek, from the confluence with Coyote Creek to Dorel Drive, to accomplish the following objectives.

- Provide one-percent flood protection to more than 5,000 homes, businesses, and public buildings.
- Mitigate for project impacts.
- Improve stream habitat values and fisheries potential.
- Reduce sedimentation and maintenance requirements.
- Identify opportunities to integrate recreation improvements consistent with the City of San Jose's Master Plans for Penitencia Creek Park Chain Reach 1 and Reach 2, the County's Penitencia Creek Master Plan, and Santa Clara Countywide Trails Master Plan.
- Obtain a Letter of Map Revision (LOMR) from the Federal Emergency Management Agency (FEMA).
- Incorporate the District's Clean, Safe Creeks and Natural Flood Protection (NFP) Program Objectives.
- Coordinate with local agencies to ensure that planned flood control improvements do not conflict with trail construction by the City of San Jose that is scheduled to begin in the latter part of 2013.

This project is accounted for in the following job numbers:

- 40324003—District coordination with Corps for Corps' work
- 40324005—District's Lands, Easements, Rights of Way, Relocation, and Disposal (LERRDs)
- 26324001—Safe Clean Water Program coordination with Corps for Corps' work

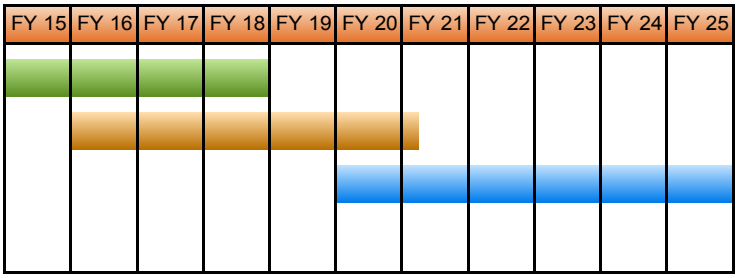
PROJECT LOCATION

Project Location
1 Percent Floodplain

SCHEDULE & STATUS

March 1996 to June 2026

Phase	Cost
Plan	11,452
Design	21,720
Construct	26,554
Closeout	20
	59,746



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**FY20**	**Future**	
40324003-Upper Penitencia Ck, Coyote Ck to Dorel Dr, Corps	8,596	362	0	0	0	0	0	0	8,958
with inflation	8,596	362	0	0	0	0	0	0	8,958
40324005-Upper Penitencia Ck, Coyote Ck to Dorel Dr, LERRDs	3,463	1,300	2,800	664	0	0	0	0	8,227
with inflation	3,463	1,300	2,912	718	0	0	0	0	8,393
26324001-Upper Penitencia Ck, Coyote Ck to Dorel Dr	0	0	376	4,638	5,453	5,453	11,736	16,578	44,234
with inflation	0	0	391	5,016	6,134	6,379	18,116	17,141	53,178
TOTAL	**12,059**	**1,662**	**3,176**	**5,302**	**5,453**	**5,453**	**11,736**	**16,578**	**61,419**
with inflation	**12,059**	**1,662**	**3,303**	**5,735**	**6,134**	**6,379**	**18,116**	**17,141**	**70,529**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY14**	**FY15**		**FY16**	**FY17**	**FY18**	**FY19**	**FY20**	**Future**	
40324003-Upper Penitencia Ck, Coyote Ck to Dorel Dr, Corps	8,970	0	12	0	0	0	0	0	0	8,970
40324005-Upper Penitencia Ck, Coyote Ck to Dorel Dr, LERRDs	8,544	0	3,781	0	0	0	0	0	0	8,544
26324001-Upper Penitencia Ck, Coyote Ck to Dorel Dr	0	0	0	391	5,016	6,134	6,379	18,116	17,141	53,178
TOTAL	**17,514**	**0**	**3,793**	**391**	**5,016**	**6,134**	**6,379**	**18,116**	**17,141**	**70,692**

Adjusted Budget includes adopted budget plus approved budget adjustments. Approved Funding exceeds planned expenditures by approximately $163,000. Excess funding will be returned to reserves at the end of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	17,514
SCVWD Safe, Clean Water Fund	53,178
Total	**70,692**
U.S. Army Corps of Engineers - In-kind Services	102,720

OPERATING COST IMPACTS

Operating cost impacts will be provided after completion of the planning phase.

USEFUL LIFE: Not Available

Project	**Llagas Creek–Lower, Capacity Restoration, Buena Vista Avenue to Pajaro River**
Program	Flood Protection – Uvas/Llagas Watershed
Priority No.	64
Project No.	50284010
District Contact	Melanie Richardson mrichardson@valleywater.org

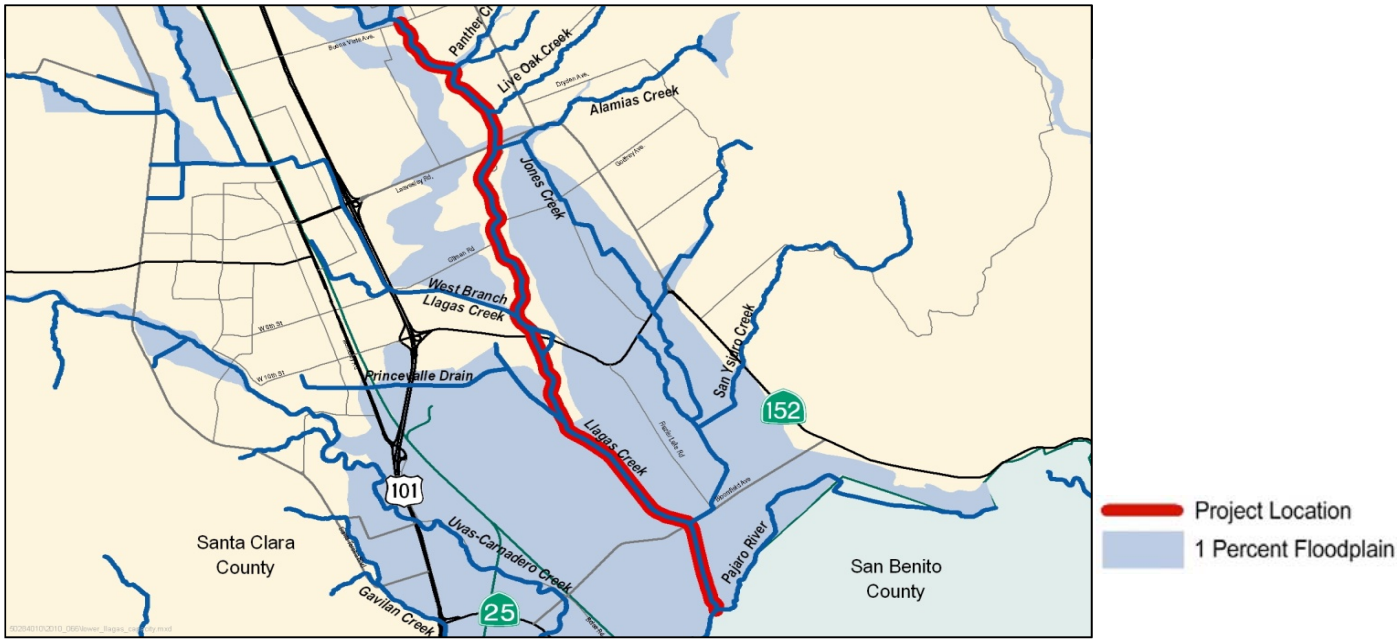
Lower Llagas Creek near Pajaro River

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements on approximately 7.15 miles of Lower Llagas Creek, from Buena Vista Avenue to Pajaro River, to accomplish the following objectives:

- Evaluate the current flood risk in the area surrounding the project versus the design level flood risk.
- Develop options to provide flood protection for Lower Llagas Creek Reaches 2 and 3 in accordance with Federal Emergency Management Agency (FEMA) criteria where applicable.
- Identify feasible opportunities for environmental restoration and corridor preservation.

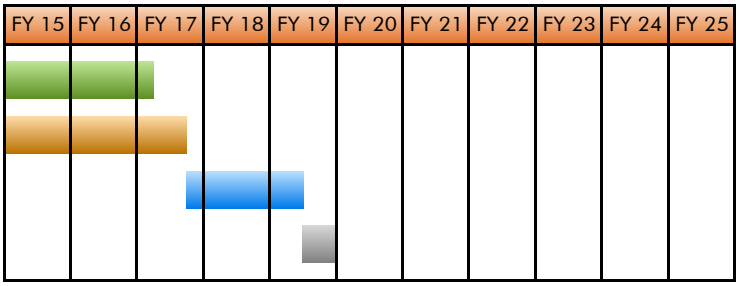
PROJECT LOCATION



SCHEDULE & STATUS

July 2008 to June 2019

Phase	Cost
Plan	3,740
Design	5,806
Construct	1,725
Closeout	50
	11,321



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
50284010-Llagas Creek–Lower, Capacity Restoration, Buena Vista Avenue to Pajaro River	3,282	4,366	1,898	1,225	500	50	0	0	11,321
with inflation	3,282	4,366	1,898	1,315	562	58	0	0	11,481

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
50284010-Llagas Creek–Lower, Capacity Restoration, Buena Vista Avenue to Pajaro River	11,626	0	3,978	0	0	0	0	0	0	11,626

Adjusted Budget includes adopted budget plus approved budget adjustments. Approved budget exceeds planned expenditures by approximately $145,000. Excess funds will be returned to fund reserves at the end of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	11,626
Other Funding Source	0
Total	11,626

OPERATING COST IMPACTS

Operating costs will be determined during the planning phase.

USEFUL LIFE: 30+ Years

Project	**Llagas Creek–Upper, Buena Vista Avenue to Llagas Road**
Program	Flood Protection – Uvas/Llagas Watershed
Priority No.	74
Project No.	26174051s
District Contact	Liang Lee Llee@valleywater.org

Llagas Creek floods at Watsonville Road and the surrounding area

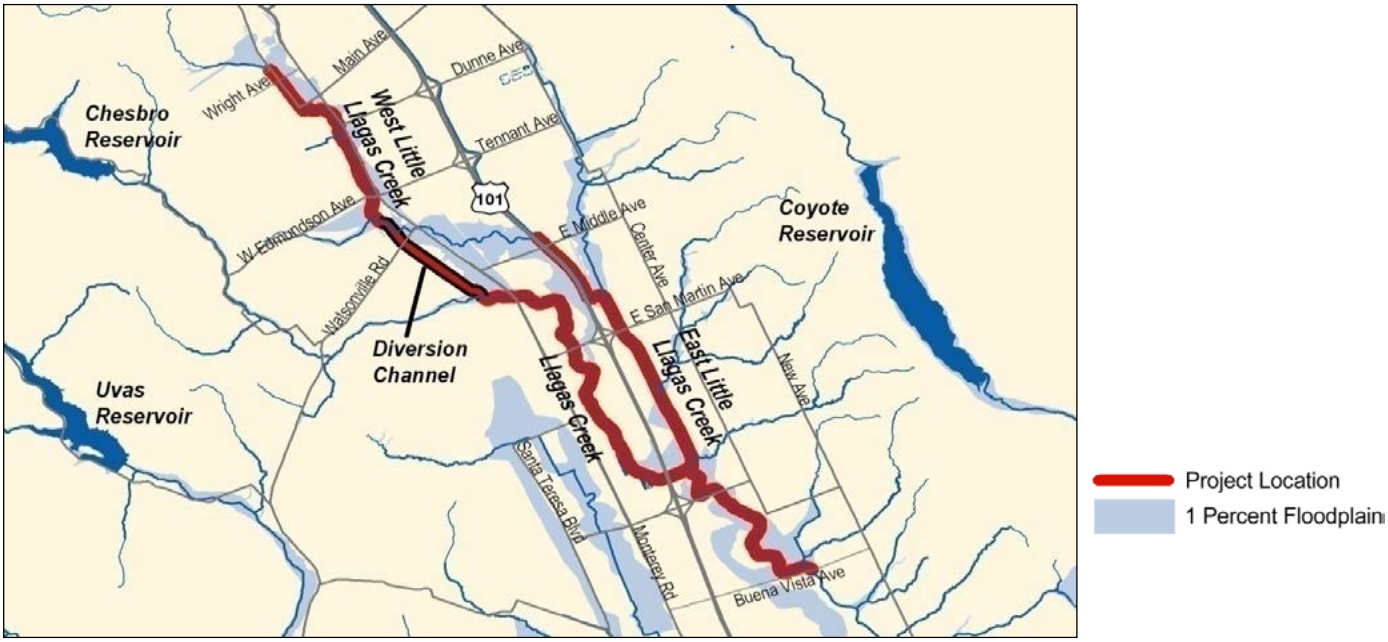
PROJECT DESCRIPTION

This project partners with the U.S. Army Corps of Engineers (Corps) to plan, design, and construct improvements on approximately 13.6 miles of Upper Llagas Creek, from Buena Vista Avenue to Llagas Road, to provide an increased level of flood protection with adequate freeboard. SCVWD shall coordinate with the County of Santa Clara and the City of Morgan Hill on public access and recreational trail opportunities within Reaches 7 and 8 of this project.

This project is accounted for in the following job numbers:

- 26174051 Reaches 4-8 & 14 - Reimbursable - Lands, Easements, Rights of Way, Relocation, & Disposal (LERRDs)
- 26174052 Reaches 4-8 & 14 - Coordination with the Corps
- 26174053 - Technical Studies (completed)
- 26174054 - Design
- 50C40335 - Construction, Reach 5, 6, & 7b

PROJECT LOCATION

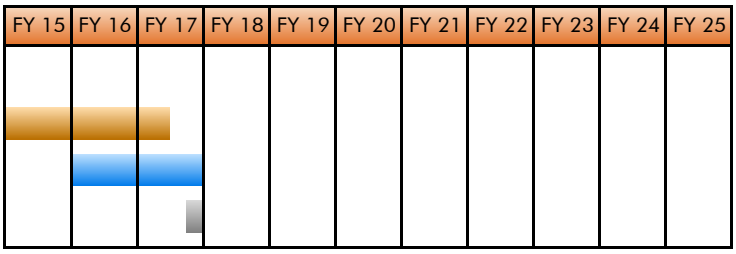


SCHEDULE & STATUS

August 2000 to June 2017

Project schedule may vary considerably and is dependent upon the Corps and Congress.

Phase	Cost
Plan	7,356
Design	55,007
Construct	95,403
Closeout	166
	157,932



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
26174051-Llagas Ck—Upper, LERRDs	10,155	6,061	26,416	0	0	0	0	0	42,632
with inflation	10,155	6,061	26,416	0	0	0	0	0	42,632
26174052-Llagas Ck—Upper, Corps Coordination	2,090	16,907	50,395	5,200	0	0	0	0	74,592
with inflation	2,090	16,907	50,395	5,572	0	0	0	0	74,964
26174053-Llagas Ck—Upper, Technical Studies	1,446	0	0	0	0	0	0	0	1,446
with inflation	1,446	0	0	0	0	0	0	0	1,446
26174054-Llagas Ck—Upper, Design	16,760	900	832	0	0	0	0	0	18,492
with inflation	16,760	900	832	0	0	0	0	0	18,492
50C40335-Llagas Ck—Upper, Construction Rch 5, 6, & 7b	0	0	0	23,000	0	0	0	0	23,000
with inflation	0	0	0	24,638	0	0	0	0	24,638
TOTAL	**30,451**	**23,868**	**77,643**	**28,200**	**0**	**0**	**0**	**0**	**160,162**
with inflation	**30,451**	**23,868**	**77,643**	**30,210**	**0**	**0**	**0**	**0**	**162,172**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
26174051-Llagas Ck—Upper, LERRDs	41,333	337	25,454	962	0	0	0	0	0	42,632
26174052-Llagas Ck—Upper, Corps Coordination	3,633	15,364	0	50,296	5,671	0	0	0	0	74,964
26174053-Llagas Ck—Upper, Technical Studies	1,446	0	0	0	0	0	0	0	0	1,446
26174054-Llagas Ck—Upper, Design	16,830	2,025	1,195	726	0	0	0	0	0	19,581
50C40335-Llagas Ck—Upper, Construction Rch 5, 6, & 7b	0	0	0	0	24,638	0	0	0	0	24,638
TOTAL	**63,242**	**17,726**	**26,649**	**51,984**	**30,309**	**0**	**0**	**0**	**0**	**163,261**

Adjusted Budget includes adopted budget plus approved budget adjustments. Allocated funding exceeds total planned expenditures by approximately $1,089,000. Unspent funds will be returned to fund reserves at the close of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Clean, Safe Creeks and Natural Flood Protection Fund	17,900
SCVWD Safe Clean Water Program Fund	80,473
Watershed Stream Stewardship Fund	24,638
State of California	36,909
City of Morgan Hill	3,341
Total	**163,261**
U.S. Army Corps of Engineers - In-kind Services	65,000

OPERATING COST IMPACTS

Operating cost impacts will be provided after completion of the design phase.

USEFUL LIFE: 30+ Years

Project	**San Francisco Bay Shoreline**
Program	Flood Protection – Multiple Watersheds
Priority No.	81
Project No.	00044026s
District Contact	Melanie Richardson mrichardson@valleywater.org

Typical natural tidal marshland in San Francisco Bay near the Shoreline project area

PROJECT DESCRIPTION

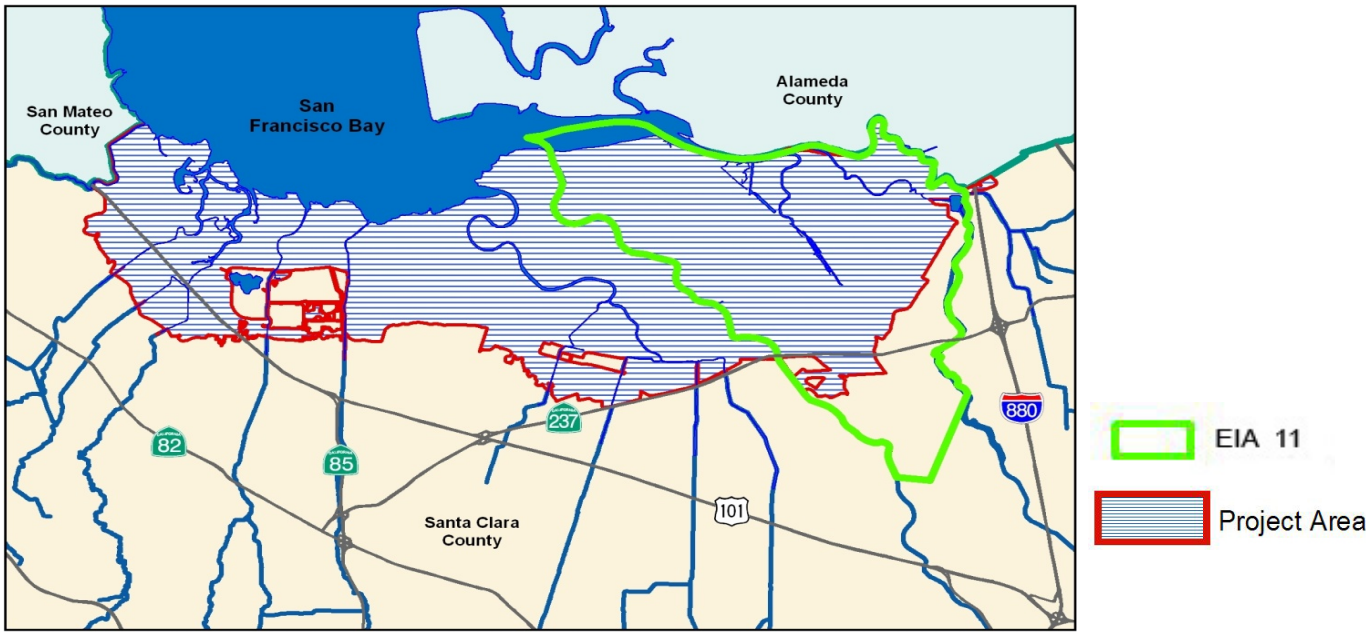
This project partners with the California Costal Conservancy, U.S. Army Corps of Engineers (Corps), and key stakeholders to conduct an integrated, multi-objective project along the San Francisco Bay Shoreline. The planning efforts for the North San Jose area, known as Economic Impact Area 11 (EIA 11), will be funded from project number 00044026. Safe, Clean Water funds will provide $15 million toward the District's cost share of the design and partial construction efforts for EIA 11 and $5 million toward the District's cost share of the planning efforts for the remaining EIAs to accomplish the following objectives:

- Provide integrated fluvial and one-percent tidal flood protection.
- Provide protection for future sea level rise projections.
- Restore and/or enhance tidal marsh and related habitats.
- Provide recreational and public access opportunities throughout the tidal floodplain of Santa Clara County.
- Pursue continued federal funding.
- Obtain a Letter of Map Revision from the Federal Emergency Management Agency at completion of the Construction Phase.
- Coordinate closely with the South Bay Salt Pond Restoration Project, City of San Jose, U.S. Fish and Wildlife Services, the community and key stakeholders.

This project is accounted for in the following job numbers:

- 00044026—San Francisco Bay Shoreline
- 62044042—Shoreline, Early Implementation (Feasibility)
- 26444001—Shoreline, EIA 11 Design & Partial Constr.
- 26444002—Shoreline, Other EIAs Planning

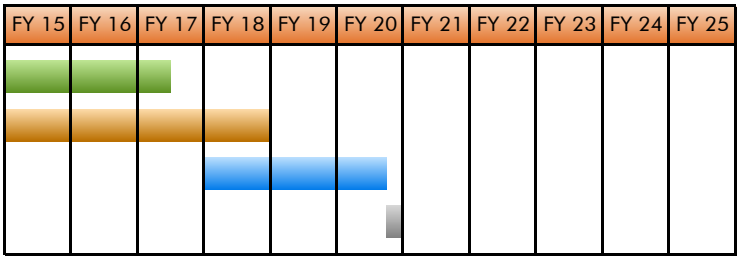
PROJECT LOCATION



SCHEDULE & STATUS

July 2003 to June 2020

Phase	Cost
Plan	12,806
Design	8,458
Construct	16,000
Closeout	-
	37,264



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY178	FY19	FY20	Future	
00044026-San Francisco Bay Shoreline	11,092	1,154	811	0	0	0	0	0	13,057
with inflation	11,092	1,154	811	0	0	0	0	0	13,057
62044042-Shoreline Early Implementation	359	0	0	0	0	0	0	0	359
with inflation	359	0	0	0	0	0	0	0	359
26444001-EIA 11 Design & Part Construction	0	100	6,448	5,300	4,000	4,000	4,000	0	23,848
with inflation	0	100	6,448	5,695	4,499	4,720	4,951	0	26,412
26444002-Other EIAs Planning	122	2,107	1,695	1,630	0	0	0	0	5,554
with inflation	122	2,107	1,695	1,763	0	0	0	0	5,687
TOTAL	**11,573**	**3,361**	**8,044**	**6,930**	**4,000**	**4,000**	**4,000**	**0**	**42,818**
with inflation	**11,573**	**3,361**	**8,954**	**7,458**	**4,499**	**4,720**	**4,951**	**0**	**45,515**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
00044026-San Francisco Bay Shoreline	11,999	1,016	769	42	0	0	0	0	0	13,057
62044042-Shoreline Early Implementation	359	0	0	0	0	0	0	0	0	359
26444001-EIA 11 Design & Part Construction	0	6,239	6,139	309	5,695	4,499	4,720	4,951	0	26,412
26444002-Other EIAs Planning	1,406	823	0	1,695	1,763	0	0	0	0	5,687
TOTAL	**13,764**	**8,078**	**6,908**	**2,046**	**7,458**	**4,499**	**4,720**	**4,951**	**0**	**45,515**

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	10,985
SCVWD Clean, Safe Creeks and Natural Flood Protection Fund (Environmental Enhancement Grant)	2,011
SCVWD Safe, Clean Water and Natural Flood Protection Fund	32,099
California Department of Water Resources (Pending)	420
Total	**45,515**
Federal Partners, South Bay Salt Ponds (SBSP)	48,470
State, SBSP	14,720
Foundations, Packard-Hewlett-Goldman-Moore, SBSP	17,060
Coastal Conservancy, Shoreline	2,010
Federal, Corps of Engineers, Shoreline	8,990
Total Partnership Funding for In-kind Services	**91,250**

OPERATING COST IMPACTS

Operating costs will be determined during the planning phase.

USEFUL LIFE: Not Available

Project	**Small Capital Improvements - Watersheds**
Program	Flood Protection - Multiple Watersheds
Priority No.	54
Project No.	62084001
District Contact	Melanie Richardson mrichardson@valleywater.org

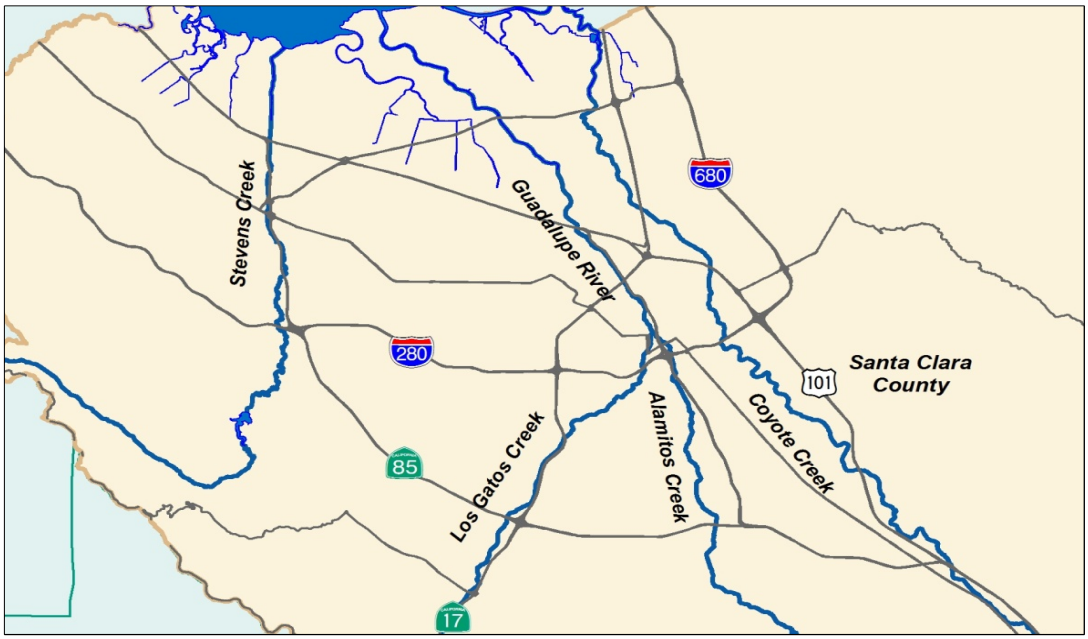
View of the Calabazas Creek Outfall from the top of the bank

PROJECT DESCRIPTION

This project plans, designs, and constructs numerous small capital projects to address the following issues:

- Bank erosion repair.
- Geomorphic channel restoration with bed and bank repair.
- Outfall restoration and repair.
- Sediment removal and fish ladder and blockage repair.
- Fish ladder modifications and repairs.

PROJECT LOCATION



SCHEDULE & STATUS

This project is part of a regularly scheduled 10-year maintenance and asset management program.

Traditional planning, design, and construction phases do not apply.

Phase	Cost
Plan	-
Design	-
Construct	3,268
Closeout	-
	3,268

FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
62084001-Small Capital Improvements - Watersheds	0	700	700	654	622	592	0	0	3,268
with inflation	0	700	700	701	700	699	0	0	3,499

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
62084001-Small Capital Improvements - Watersheds	0	700	0	700	701	700	699	0	0	3,499

Adjusted Budget includes adopted budget plus a planned budget adjustment of $172,000.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	3,499
Other Funding Sources	0
Total	3,499

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

Water Resources Stewardship Capital Improvements

WATER RESOURCES STEWARDSHIP OVERVIEW

The District plans, designs and constructs various capital projects to meet the Board's Ends Policy E-4 "There is water resources stewardship to protect and enhance watersheds and natural resources and improve the quality of life in Santa Clara County." These projects may fulfill environmental enhancement, mitigation or stewardship goals and priorities.

The District has placed an emphasis on stewardship since 1999 when the Water District's Board of Directors adopted a mission and policies that added a focus on environmental stewardship. In 2001, the California legislature added environmental stewardship to the Water District's purpose. Specifically, the Water District's environmental stewardship activities focus on these three areas:

- Healthy creek and bay ecosystems
- Clean, safe water in creeks and the bay
- Improved quality of life through trails, open space and water resources management

The Water District's stewarship work is extensive. Actions to protect the environment are woven into all we do. Some of the Districts stewardship accomplishments since 2000 are:

- Rehabilitated or restored 90 acres of riparian habitat and 600 acres of tidal wetland habitat
- Provided funding for 92 projects that resulted in 71 miles of public access
- Removed over 2,660 lbs of mercury from the Guadalupe Watershed
- Made 40 miles of streams accessible for fish
- In conjunction with the Open Space Authority, acquiring 1,300 acres of land for preservation of California Red Legged Frog and California Tiger Salamander habitat

Environmental Commitment Projects

Beginning in FY 2011-12 a fourth sub-category was added to Water Resources Stewardship to clarify the differences between regulatory-driven and optional environmental enhancements. The new sub-category, Environmental Commitment, includes projects that are implemented to satisfy agreements made with regulatory agencies that improve the watershed environment.

Environmental Enhancement Projects

Environmental Enhancement projects are constructed at the direction of the Board either to meet the Safe, Clean Water and Natural Flood Protection program (SCW) obligations or to meet other Board priorities.

The District's Safe, Clean Water Program, approved by the voters of Santa Clara County in 2012, committed funding for environmental enhancement activities that create or restore tidal or riparian habitat. A selection process will be conducted to allocate the SCW funding to the enhancement opportunities that meet Board-defined characteristics.

Major Capital Improvements Identified in the CIP

- South Bay Salt Ponds Restoration
- Lake Almaden, Guadalupe River, Los Alamitos Creek Planning and Design

Mitigation Projects

The District manages many mitigation sites and continues to plan, design, and construct new mitigation sites to fulfill CEQA and regulatory permit requirements for both capital projects and operations activities. Mitigation requirements for capital projects may be incorporated into the project scope or accomplished as a separate project.

Major Capital Improvements Identified in the CIP

- SMP Mitigation, Stream and Watershed Land Preservation

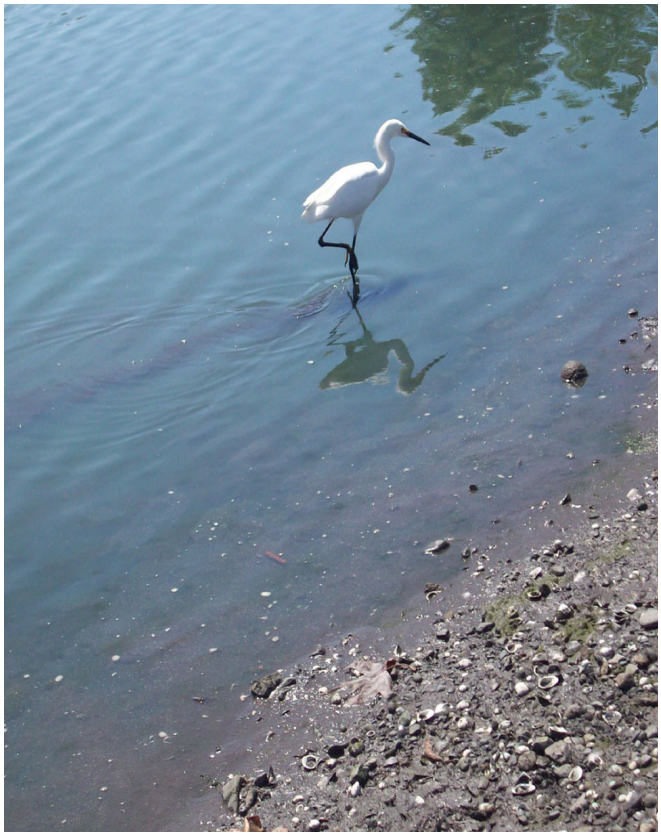
Stewardship Projects

Stewardship projects are implemented to promote water quality awareness; reduce pollutants in streams; support additional trails, parks and open space; support creek side recreation; and reduce green house gas. Stewardship projects are implemented at the discretion of the Board when reasonable and appropriate. These projects are often accomplished in partnership with or support of other agencies.

Stewardship projects may be constructed to fulfill the SCW obligations or to meet other Board priorities. A selection process will be conducted to allocate SCW funding to the Stewardship projects that meet the SCW requirements.

Major Capital Improvements Identified in the CIP

- Alviso Slough Restoration
- FAHCE Stevens Creek Fish Passage Enhancement
- SCW Implementation Fund



PRIORITY PROCESS AND FINANCIAL ANALYSIS

Environmental Enhancement and Stewardship projects are implemented at the discretion of the Board. Projects may go through a ranking process to compete for Safe, Clean Water funds or the board may direct that other available revenue be used to implement the proposed projects. The inclusion of these projects in the Fiscal Year 2016-20 CIP has been approved by the Board. The priority criteria used to evaluate these projects are included in Appendix A.

Implementation of Mitigation projects is considered non-discretionary since they are needed to meet California Environmental Quality Act (CEQA) or regulatory permit commitments. Funding for mitigation projects is allocated without a prioritization process.

Financial analysis of the following funding sources for Water Resources Stewardship capital improvements was conducted to determine if there are limitations to funding currently planned capital projects.

- Watershed and Stream Stewardship Fund
- Safe, Clean Water Fund
- Water Utility Enterprise Fund

Funding needs for approved Water Resources Stewardship projects can be met.

Water Resources Stewardship Capital Improvements

The following table is a project funding schedule for water resources stewardship capital improvements resulting from this year's financial analysis. Detailed information for each project can be found in this document on the following pages in the order presented in this table. The chart also identifies partially funded projects and estimated unspent appropriation from FY 2014-15.

Water Resources Stewardship Capital Improvements ($K)

Project Number	PROJECT NAME	Through FY14	FY15	FY15 Unspent	FY16	FY17	FY18	FY19	FY20	FY21-30	TOTAL
	ENVIRONMENTAL COMMITMENT										
N/A	None	-	-	-	-	-	-	-	-	-	-
	ENVIRONMENTAL ENHANCEMENT										
26044001	Almaden Lake Improvements (D4.1a)	864	1,153	-	705	1,129	-	-	-	-	3,851
00294001s	FAHCE Stevens Creek Fish Passage Enhancement D4	850	-	-	-	1,449	3,222	-	-	-	5,521
26164001	Hale Creek Enhancement Pilot Study	-	516	416	-	108	1,687	-	-	-	2,311
20444001	Salt Ponds A5-11 Restoration	-	1,168	-	1,518	1,794	804	2,028	-	-	7,312
26044002	SCW Fish Passage Improvements (D4.3)	-	-	-	1,461	2,291	1,547	1,500	-	-	6,799
26444003	South Bay Salt Ponds Restoration (D8)	188	329	-	18	280	1,840	1,937	-	-	4,592
	MITIGATION										
62184001	SMP Mitigation, Stream and Watershed Land Preservation	11,128	3,076	1,717	795	703	714	-	-	-	16,416
	STEWARDSHIP										
26C40370	SCW Implementation Fund	0	-	-	-	4,690	15,374	10,356	8,833	23,658	62,911
	TOTAL	13,030	6,242	2,133	4,497	12,444	25,188	15,821	8,833	23,658	109,713

FY 2014-15 Funds to be reappropriated

The following table shows funding requirements from each funding source for mitigation capital improvements.

Water Resources Stewardship – Funding Sources ($K)

Fund Number	FUND NAME	Through FY14	FY15	FY15 Unspent	FY16	FY17	FY18	FY19	FY20	FY21-30	TOTAL
61	Water Utility Enterprise Fund	765	-	-	-	2,028	3,649	775	802	7,886	15,905
12	Watershed Stream Stewardship Fund	11,213	4,244	1,717	2,313	3,366	2,589	2,803	802	7,886	35,216
26	Safe, Clean Water and Natural Flood Protection Fund	1,052	1,998	416	2,184	7,050	18,950	12,243	7,230	7,886	58,593
	TOTAL	13,030	6,242	2,133	4,497	12,444	25,188	15,821	8,833	23,658	109,713

FY 2014-15 Funds to be reappropriated

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There are currently no active Environmental Commitment projects.

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Project	**Almaden Lake Improvements**
Program	Water Resources Stewardship – Environmental Enhancement
Priority No.	43
Project No.	26044001
District Contact	Melanie Richardson mrichardson@valleywater.org

Looking southerly at Lake Almaden, which has fish with the highest concentrations of mercury in California in 2010.

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements at Guadalupe River from Blossom Hill Road to the Guadalupe Creek/Alamitos Creek confluence, and Alamitos Creek from the Guadalupe Creek confluence to Winfield Boulevard, including Lake Almaden, to accomplish the following objectives:

- Address state and federal requirements for protection of endangered species for activities related to water supply operations, dam maintenance program, and certain flood protection activities.
- Comply with regulatory requirements to reduce mercury contamination in fish.
- Restore stream function and incorporate geomorphologic features along portions of Guadalupe River and Alamitos Creek.
- Provide100-year level of flood protection extending from upstream of Blossom Hill Road to downstream of Winfield Boulevard.
- Enhance environmental and recreational features.

This project is funded for the planning and design phase. Funding for construction may be available from Safe, Clean Water, Priority D.

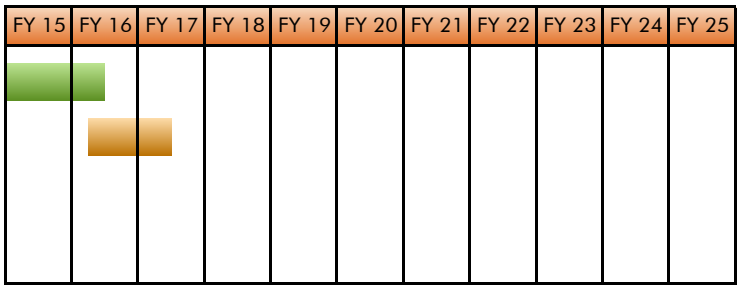
PROJECT LOCATION

SCHEDULE & STATUS

July 2011 to December 2016

Planning Phase and some Design Tasks. Construction is not funded at this time.

Phase	Cost
Plan	2,392
Design	1,373
Construct	1
Closeout	-
	3,766



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
26044001-Almaden Lake Improvements	812	1,205	705	1,044	0	0	0	0	3,766
with inflation	812	1,205	705	1,129	0	0	0	0	3,851

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
26044001-Almaden Lake Improvements	864	1,153	0	705	1,129	0	0	0	0	3,851

Adjusted Budget includes adopted budget plus a planned budget adjustment of $457,000.

FUNDING SOURCES

(in thousands $)

SCVWD Clean, Safe Creeks and Natural Flood Protection Fund	800
SCWD Safe Clean Water Fund	3,051
Total	**3,851**

OPERATING COST IMPACTS

No operating cost impacts are expected from the completion of the planning and design phases of the project.

USEFUL LIFE: 100 Years

Project	**FAHCE Stevens Creek Fish Passage Enhancement**
Program	Water Resources Stewardship - Environmental Enhancement
Priority No.	40
Project No.	00294001s
District Contact	Melanie Richardson mrichardson@valleywater.org

Example of a fish ladder to be modified or reconstructed for better fish passage

PROJECT DESCRIPTION

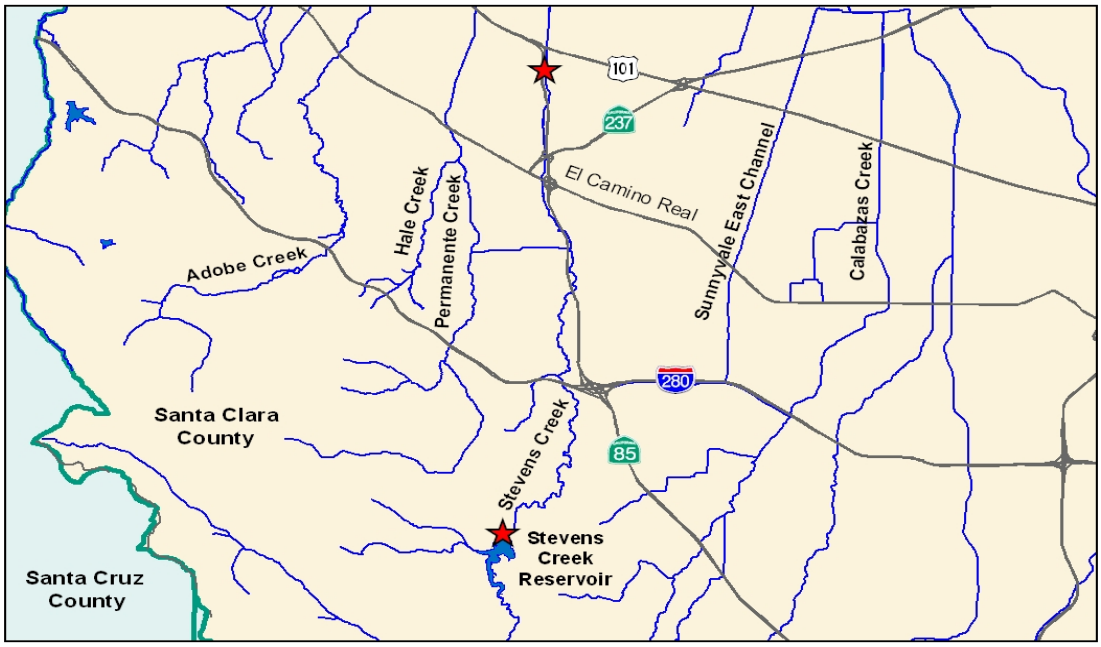
This project plans, designs, and constructs improvements to the Moffett Boulevard fish ladder to improve fish passage as well as a multiport outlet at Stevens Creek Dam to accomplish the following objectives:

- Restore and maintain a healthy steelhead trout population in the Stevens Creek watershed.
- Provide a suitable spawning and rearing habitat below Stevens Creek Dam within a cold water management zone determined on an annual basis through the development of an operations plan.
- Provide adequate passage for adult steelhead trout to reach suitable spawning and rearing habitat and for out-migration of juveniles.

This project is accounted for in the following job numbers:

- 00294001—Fish Passage Planning
- 00C40145—Moffett Boulevard Fish Ladder
- 00C40198—Multi-Port Outlet at Dam

PROJECT LOCATION



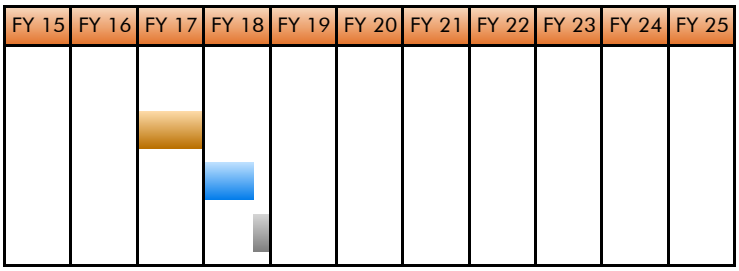
★ Project Location

SCHEDULE & STATUS

July 2008 to June 2018

Planning phase is complete. Project on hold pending completion of the Three Creeks Habitat Conservation Plan, to be done in a separate operating project.

Phase	Cost
Plan	950
Design	1,240
Construct	2,831
Closeout	33
	5,054



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
00294001-FAHCE Stevens Ck Fish Passage Planning	850	0	0	0	0	0	0	0	850
with inflation	850	0	0	0	0	0	0	0	850
00C40145-FAHCE Stevens Ck Fish Ladder at Moffett Blvd	0	0	0	1,067	1,851	0	0	0	2,918
with inflation	0	0	0	1,154	2,082	0	0	0	3,236
00C40198-FAHCE Stevens Ck Dam Multi-Port Outlet	0	0	0	272	1,014	0	0	0	1,286
with inflation	0	0	0	295	1,140	0	0	0	1,435
TOTAL	**850**	**0**	**0**	**1,340**	**2,865**	**0**	**0**	**0**	**5,054**
with inflation	**850**	**0**	**0**	**1,449**	**3,222**	**0**	**0**	**0**	**5,521**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
00294001-FAHCE Stevens Ck Fish Passage Planning	850	0	0	0	0	0	0	0	0	850
00C40145-FAHCE Stevens Ck Fish Ladder at Moffett Blvd	0	0	0	0	1,154	2,082	0	0	0	3,236
00C40198-FAHCE Stevens Ck Dam Multi-Port Outlet	0	0	0	0	295	1,140	0	0	0	1,435
TOTAL	**850**	**0**	**0**	**0**	**1,449**	**3,222**	**0**	**0**	**0**	**5,521**

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund–10%	552
SCVWD Water Utility Enterprise Fund–90%	4,969
Total	**5,521**

OPERATING COST IMPACTS

Operating costs will be determined during the design phase.

USEFUL LIFE: 50 Years

Project	**Hale Creek Enhancement Pilot Study**
Program	Water Resources Stewardship - Environmental Enhancements
Priority No.	67
Project No.	26164001
District Contact	Melanie Richardson mrichardson@valleywater.org

Reach to be modified downstream of 7th Day Adventist foot bridge between Marilyn Drive and North Sunshine Drive.

PROJECT DESCRIPTION

This pilot project plans, designs, and constructs improvements to an approximately 500-foot long reach in Hale Creek to accomplish the following objectives:

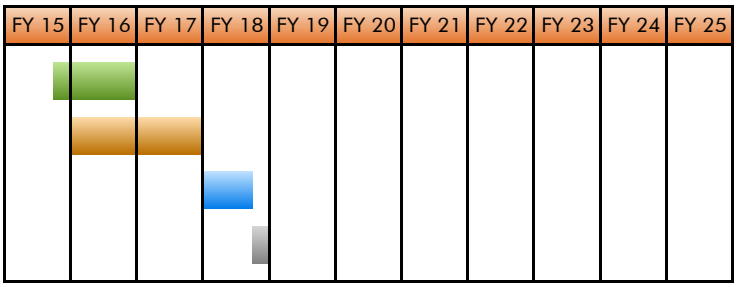
- Provide flood protection and enhance habitat values.
- Restore stream recharge capability to a concrete-lined portion.
- Remove existing concrete channel and replace with a vegetated soft-bottom channel.

PROJECT LOCATION

SCHEDULE & STATUS

May 2015 to June 2018

Phase	Cost
Plan	250
Design	350
Construct	1,500
Closeout	-
	2,100



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
26164001-Hale Creek Enhancement Pilot Study	0	100	400	100	1,500	0	0	0	2,100
with inflation	0	100	416	108	1,687	0	0	0	2,311

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
26164001-Hale Creek Enhancement Pilot Study	0	516	416	0	108	1,687	0	0	0	2,311

Adjusted Budget includes adopted budget plus a planned budget adjustment of $516,000.

FUNDING SOURCES

(in thousands $)

SCVWD Safe, Clean Water Fund	2,311
Other Funding Sources	0
Total	**2,311**

OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined during the design phase.

USEFUL LIFE: Not available

Project	**Salt Ponds A5-11 Restoration**
Program	Water Resources Stewardship - Environmental Enhancements
Priority No.	36
Project No.	20444001
District Contact	Liang Lee llee@valleywater.org

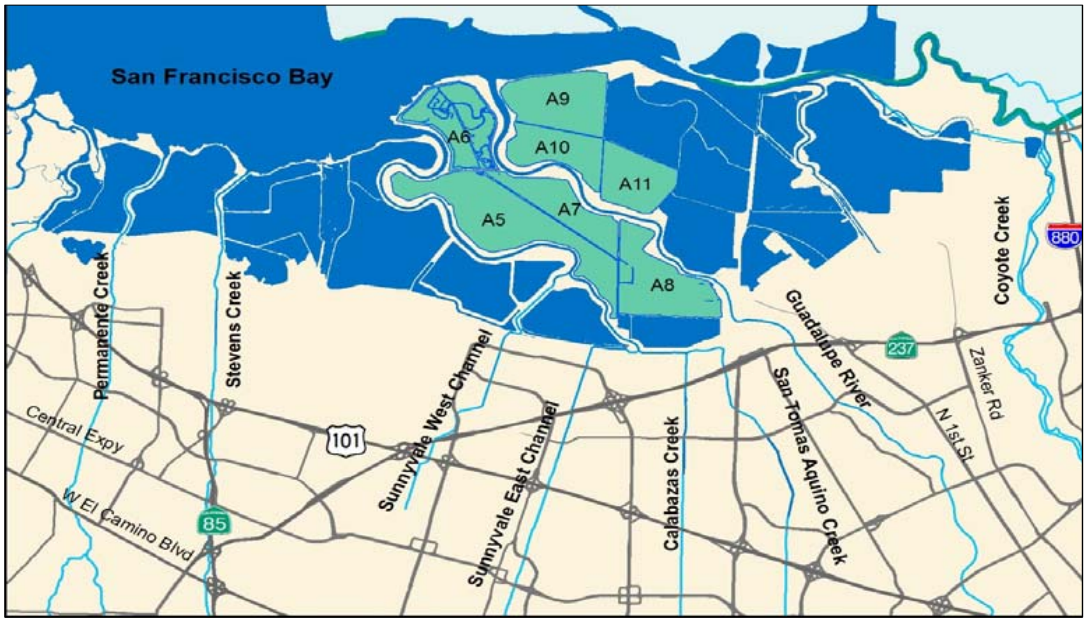
View of Notch Location at Pond A8

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to the South Bay Salt Ponds (SBSP) and will collaborate with the SBSP Phase II restoration efforts to accomplish the following objectives:

- Investigate flood benefits provided by the existing salt pond levees, identify weaknesses, design correction and construct corrections to protect Santa Clara County.
- Collaborate with Phase II restoration efforts to make sure that adequate flood protection is provided.
- Collect data required to answer permitting questions on mercury and steelhead migration. Positive results should allow the Pond A8 notch to be fully operational.
- Investigate the re-alignment of Calabazas and San Tomas Creek into Pond A8 and design and implement re-alignment if feasible.

PROJECT LOCATION

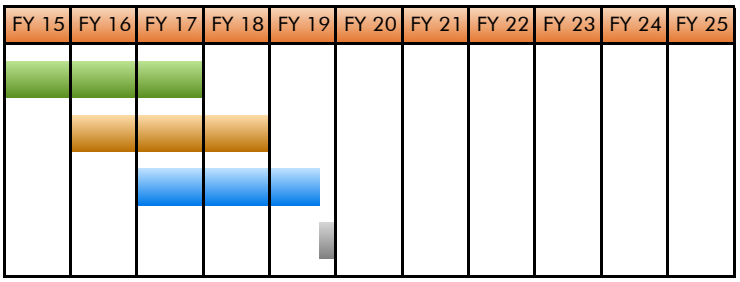


★ Project Location

SCHEDULE & STATUS

July 2015 to June 2019

Phase	Cost
Plan	4,035
Design	284
Construct	2,458
Closeout	5
	6,782



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
20444001-Salt Ponds A5-11 Restoration	0	1,168	1,518	1,659	715	1,722	0	0	6,782
with inflation	0	1,168	1,518	1,794	804	2,028	0	0	7,313

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
20444001-Salt Ponds A5-11 Restoration	0	1,168	0	1,518	1,794	804	2,028	0	0	7,313

Adjusted Budget includes adopted budget plus a planned budget adjustment of $1,168,000.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed and Stream Stewardship Fund	7,313
Other Funding Sources	0
Total	**7,313**

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $4 million every 3 years, beginning in FY 2021, for on-going sediment removal.

USEFUL LIFE : Not Available

Project	**SCW Fish Passage Improvements**
Program	Water Resources Stewardship - Environmental Enhancements
Priority No.	51
Project No.	26044002
District Contact	Liang Lee Llee@valleywater.org

View of the Singleton Road fish barrier from the east bank downstream of the barrier

PROJECT DESCRIPTION

This project plans, designs and constructs improvements for two high priority fish barriers in Santa Clara County. A third priority barrier, owned by the City of San Jose, will be remediated through a project partnership with funds allocated from this project. The project will accomplish the following objectives:

- Planning, design and construction for a passage impediment at the Evelyn Bridge preventing upstream/downstream movement of steelhead in the Stevens Creek watershed. Remediation of this barrier will facilitate movement to 8.8 miles of higher quality upstream habitat and allow for out-migrant fish to access San Francisco Bay unimpeded.
- Planning, design and construction for a passage impediment at the Bolsa Road railroad bridge in the Uvas Watershed. Remediation of this site will allow access to approximately 22 miles of higher quality habitat upstream as well as unimpeded access for out-migrant fish through the project site.
- Prepare a partnership agreement and provide technical support to the City of San Jose for removal of the Singleton

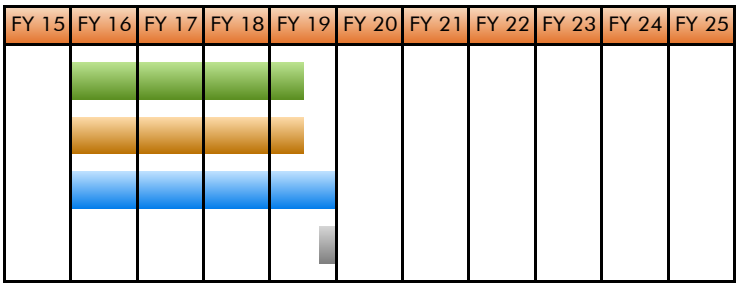
PROJECT LOCATION

★ Project Location

SCHEDULE & STATUS

July 2015 to June 2019

Phase	Cost
Plan	855
Design	2,200
Construct	3,100
Closeout	75
	6,230



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
26044002-SCW Fish Passage Improvements	0	0	1,461	2,119	1,375	1,275	0	0	6,230
with inflation	0	0	1,461	2,291	1,547	1,500	0	0	6,798

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
26044002-SCW Fish Passage Improvements	0	0	0	1,461	2,291	1,547	1,500	0	0	6,798

FUNDING SOURCES

(in thousands $)

SCVWD Safe, Clean Water Fund	6,798
Other Funding Sources	0
Total	6,798

OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined during the planning phase.

USEFUL LIFE : 50 Years

Project	**South Bay Salt Ponds Restoration**
Program	Water Resources Stewardship - Environmental Enhancement
Priority No.	54
Project No.	26444003
District Contact	Liang Lee llee@valleywater.org

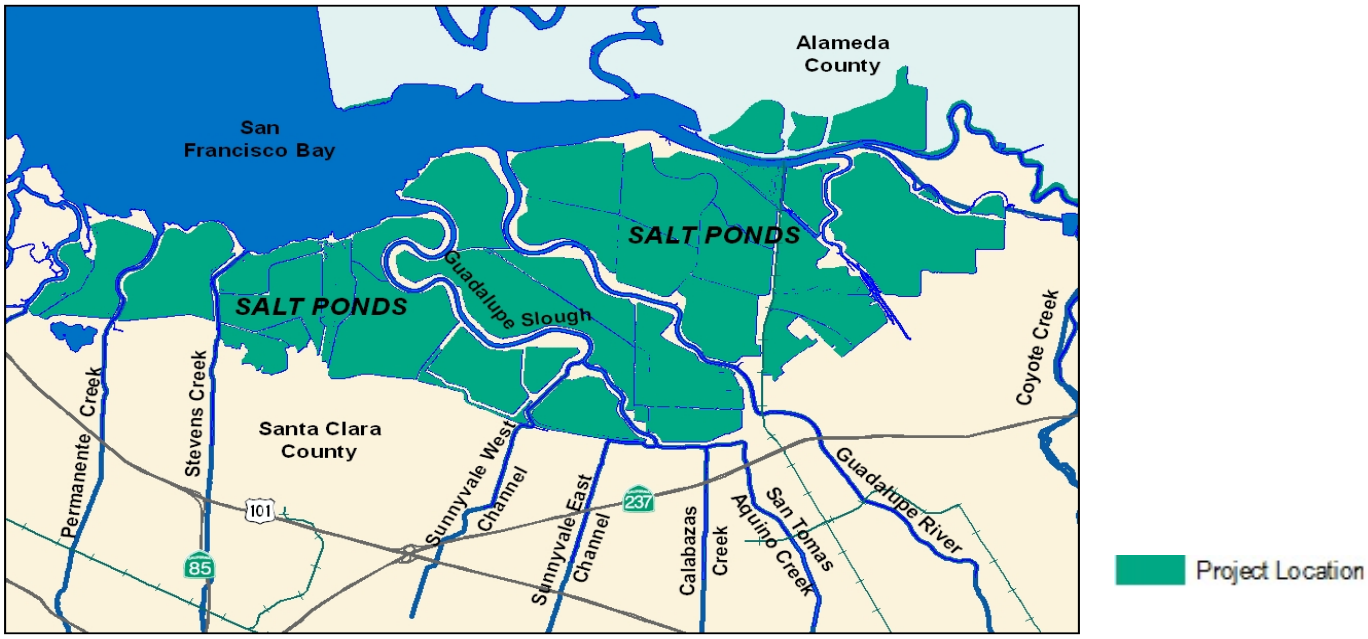
View of one of the salt evaporator facilities near Alviso

PROJECT DESCRIPTION

This project implements a planning study to investigate possible improvements to the South Bay Salt Ponds to accomplish the following objectives:

- Provide for beneficial reuse of dredge material, including materials excavated from the District's Stream Maintenance Program.
- Provide sediment disposal, storage, and reuse for a 5-year period.
- Examine restoration opportunities for riparian and wildlife habitat.

PROJECT LOCATION



SCHEDULE & STATUS

June 2013 to June 2019

Planning Study Only

Phase	Cost	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25
Plan	4,086											
Design	-											
Construct	-											
Closeout	-											
	4,086											

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
26444003-South Bay Salt Ponds Restoration	40	477	18	259	1,636	1,656	0	0	4,086
with inflation	40	477	18	280	1,840	1,937	0	0	4,593

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
26444003-South Bay Salt Ponds Restoration	188	329	0	18	280	1,840	1,937	0	0	4,593

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Safe, Clean Water Fund	4,593
Other Funding Sources	0
Total	4,593

OPERATING COST IMPACTS

Planning Phase Only: The completion of this phase of the project is not anticipated to increase or decrease annual operating costs.

USEFUL LIFE: Not Available

Project	**SMP Mitigation Stream and Watershed Land Preservation**
Program	Water Resources Stewardship – Mitigation
Priority No.	99
Project No.	62184001
District Contact	Melanie Richardson mrichardson@valleywater.org

Creek-side settings such as this will be used for stream and watershed land preservation. Actual locations will differ.

PROJECT DESCRIPTION

This project preserves streams and watershed lands in the Santa Clara Basin and implements appropriate restorations in these lands to accomplish the following objectives:

- Provide 71 acres of Stream Maintenance Program (SMP) mitigation credits through preservation of approximately 720 to 950 acres of streams and watershed lands to provide long-term protection of unique and valuable local stream resources and watersheds, in a largely self-sustaining setting. Approximately 108 acres of the total land preservation will be for protection of riparian and upland habitats that are known to support California red-legged frogs and Western pond turtles.
- Provide approximately 10 acres of SMP mitigation credits through environmental restoration on the lands acquired.
- Seek opportunities to partner with other organizations to accomplish the project objectives.

PROJECT LOCATION

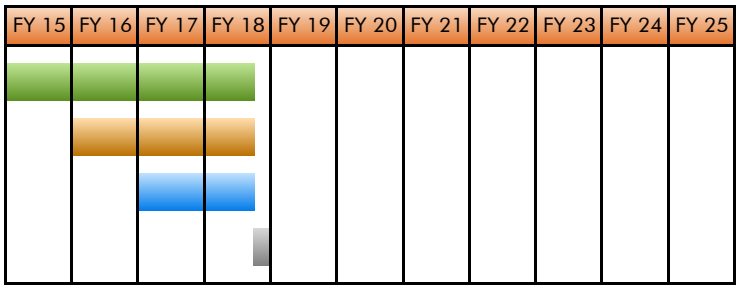
The project will purchase multiple sites for preservation in Santa Clara Basin as they become available.
No map is provided.

SCHEDULE & STATUS

July 2003 to June 2018

Some environmental tasks in the planning phase continue thru construction. Land acquisition is shown in the design phase, with restoration of site habitat shown in the construction phase.

Phase	Cost
Plan	4,076
Design	11,202
Construct	933
Closeout	20
	16,231



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
62184001-SMP Mitigation Stream and Watershed Land Preservation	8,197	4,290	2,512	653	635	0	0	0	16,287
with inflation	8,197	4,290	2,512	703	714	0	0	0	16,416

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
62184001-SMP Mitigation Stream and Watershed Land Preservation	11,128	3,076	1,717	795	703	714	0	0	0	16,416

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	16,416
Other Funding Source	0
Total	16,416

OPERATING COST IMPACTS

Operating cost will vary, depending on the type of acquisition ownership and requirements for maintenance of each site. The Stevens Canyon Ranch Conservation Easement was acquired in December 2006 and there are no operating impacts to the District. The property owner, Mid-Peninsula Regional Open Space District is responsible for maintenance and management of the site.

USEFUL LIFE: 50+ Years

Project	**SCW Implementation Fund**
Program	Water Resources Stewardship
Priority No.	43
Project No.	26C40370
District Contact	Melanie Richardson Mrichardson@valleywater.org

Aerial view looking downstream of the Ogier Pond complex. This is just one possible site under consideration.

PROJECT DESCRIPTION

This project is a placeholder for future capital projects that have not been fully defined. These projects will implement Safe Clean Water (SCW) objectives and are likely to include projects such as Comer Debris Basin, and construction of Lake Almaden-Guadalupe River-Alamitos Creek Restoration. Funds will be moved from this project into actual projects once they have been defined and vetted to ensure they meet the following program objectives:

- Create favorable stream conditions to restore and maintain fisheries.
- Increase the stability of stream channels through construction based on geomorphic principals.
- Acquisition of property for the conservation of habitat.

PROJECT LOCATION

No map is provided for this project

SCHEDULE & STATUS

July 2014 to June 2028

Data shown here is based on preliminary information. Specific projects identified to move forward will require further refinement. A Phase schedule will be defined in the planning phase.

Phase	Cost
Plan	-
Design	-
Construct	62,911
Closeout	-
	62,911

FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
26C40370-SCW Implementation Fund	0	0	0	4,690	15,374	10,356	8,833	23,658	62,911
with inflation	0	0	0	4,690	15,374	10,356	8,833	23,658	62,911

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
26C40370-SCW Implementation Fund	0	0	0	0	4,690	15,374	10,356	8,833	23,658	62,911

FUNDING SOURCES

(in thousands $)

SCVWD Safe, Clean Water Fund	41,039
SCVWD Water Utility Enterprise Fund	10,936
SCVWD Watershed and Stream Stewardship Fund	10,936
Total	62,911

OPERATING COST IMPACTS

Not Available

USEFUL LIFE: Not Available

Building and Grounds Capital Improvements

BUILDINGS AND GROUNDS OVERVIEW

The District's Almaden-Winfield campus occupies nearly 50 acres along Almaden Expressway in the City of San Jose. The District manages the campus to ensure a healthful and safe work environment for employees and visitors. The campus includes 10 buildings, multiple parking lots, a corporation yard, landscaping, and other appurtenances.

With most of the buildings on campus over 30 years old, the rehabilitation needs increased steadily in recent years. The District administers an asset management program for its buildings and grounds infrastructure that includes a schedule for maintenance and rehabilitation to ensure that each facility functions as intended over its useful life.

In January of 2012 the Board approved implementation of the Campus Master Plan which includes the following:

- Repair and rehabilitate the existing Corporation yard.
- Repair Winfield Warehouse and Winfield Vegetation buidlings.
- Replace the Maintenance Office and Ready Room buildings.

Major Capital Improvements Identified in the CIP

- Almaden & Winfield Campus Small Capital Improvements
- Winfield Capital Improvements
- Headquarters Operations Building

PRIORITY PROCESS AND FINANCIAL ANALYSIS

A rigorous priority setting process was conducted to rate the buildings and grounds projects against other types of capital improvements. The priority criteria used are included in Appendix A.

Financial analysis of the following funding sources for buildings and grounds capital improvements was conducted to determine if there are limitations to funding all the proposed capital projects.

- Watershed and Stream Stewardship Fund
- General Fund
- Water Utility Enterprise Fund

Results of this year's prioritization process and financial analysis are summarized in Appendix B. The process concluded that the Almaden and Winfield Campus Small Capital Improvements will continue to be funded at $2 million per year to meet the higher priority Buildings and Grounds needs. The first of the projects from the Campus Master Plan began in FY 2012-13 and the Headquarters Operations Building was added to the FY 2015-19 CIP.

Building and Grounds Capital Improvements

The following table is a project funding schedule for buildings and grounds capital improvements resulting from this year's priority process and financial analysis. Detailed information for each project can be found in this document on the following pages in the order presented in this table. The chart also identifies partially funded projects and estimated unspent appropriation from FY 2014-15.

Buildings and Grounds Capital Improvements ($K)

Project Number	PROJECT NAME	Through FY14	FY15	FY15 Unspent	FY16	FY17	FY18	FY19	FY20	FY21-30	TOTAL
60204016	Almaden and Winfield Campus, Small Capital Improvements	n/a	2,080	-	1,880	2,341	2,250	2,360	2,475	24,782	38,168
60204032	Headquarters Operations Building	0	219	-	1,357	4,929	10,375	-	-	-	16,880
60204021	Winfield Capital Improvements	1,685	7,577	7,691	41	622	-	-	-	-	9,925
	TOTAL	1,685	9,876	7,691	3,278	7,892	12,625	2,360	2,475	24,782	64,973

FY 2014-15 Funds to be reappropriated

The following table shows funding requirements from each funding source for buildings and grounds capital improvements.

Buildings and Grounds – Funding Sources ($K)

Fund Number	FUND NAME	Through FY14	FY15	FY15 Unspent	FY16	FY17	FY18	FY19	FY20	FY21-30	TOTAL
11	General Fund	1,685	9,876	7,691	3,278	7,892	12,625	2,360	2,475	24,782	64,973
	TOTAL	1,685	9,876	7,691	3,278	7,892	12,625	2,360	2,475	24,782	64,973

FY 2014-15 Funds to be reappropriated

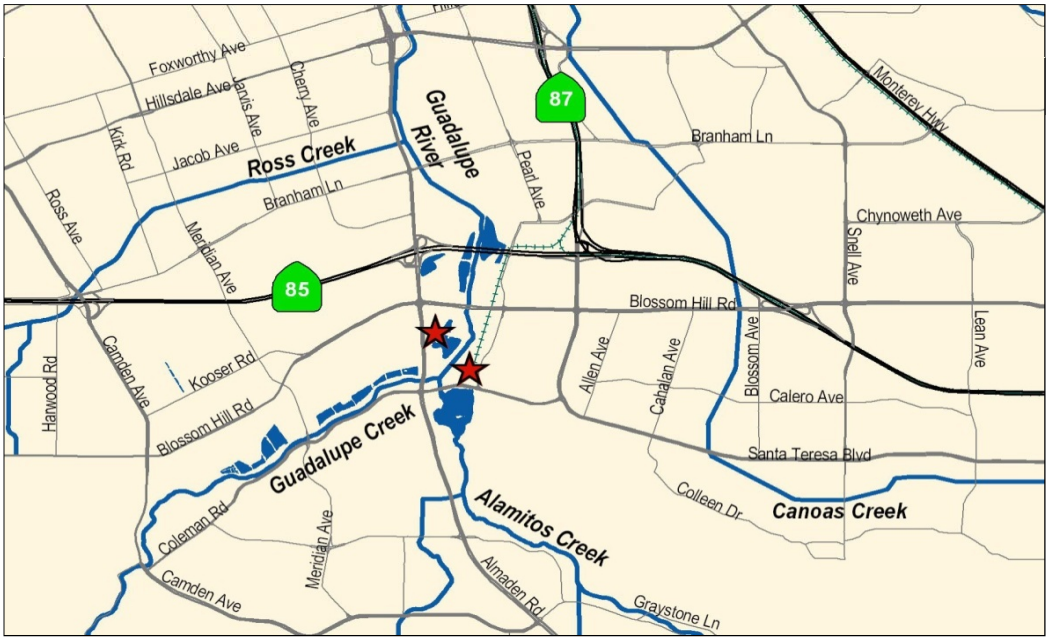
Project	**Almaden and Winfield Campus, Small Capital Improvements**
Program	Buildings and Grounds
Priority No.	73
Project No.	60204016
District Contact	Ravi Subramanian rsubramanian@valleywater.org

Front view of the Headquarters building at the Almaden Campus

PROJECT DESCRIPTION

This project reserves funding for capital maintenance and replacement of buildings, grounds, and facilities on the Almaden and Winfield campus, to provide a healthy and safe environment for staff and visitors.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

Improvements will be managed on an as-needed basis throughout the year.

Phase	Cost	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25
Plan	n/a											
Design	n/a											
Construct	n/a											
Closeout	n/a											
	n/a											

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
60204016-Almaden and Winfield Campus, Small Capital Improvements	n/a	2,080	1,880	2,182	2,000	2,000	2,000	18,000	30,142
with inflation	n/a	2,080	1,880	2,341	2,250	2,360	2,475	24,782	38,168

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
60204016-Almaden and Winfield Campus, Small Capital Improvements	n/a	2,080	0	1,880	2,341	2,250	2,360	2,475	24,782	38,168

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD General Fund	38,168
Other Funding Source	0
Total	38,168

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs. The purpose of these maintenance projects is to avoid unnecessary financial impact caused by building shut-down and work stoppage.

USEFUL LIFE: Not Available

Project	**Headquarters Operations Building**
Program	Buildings and Grounds
Priority No.	65
Project No.	60204032
District Contact	Katherine Oven koven@valleywater.org

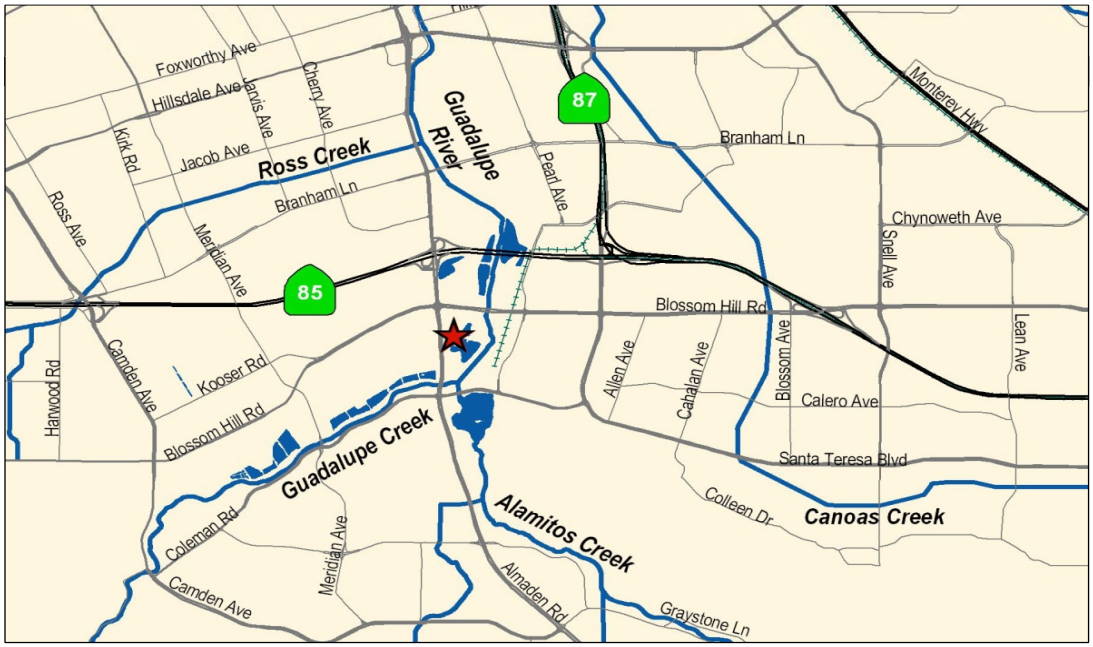
Existing Maintenance Building

PROJECT DESCRIPTION

This project plans, designs, and constructs a new operations building to replace the existing facility that has extensive deficiencies throughout. This project accomplishes the following objectives:

- Replace the Maintenance Office Building to provide a safe and healthy work environment and to meet code or regulatory requirements.
- Provide adequate and sufficient space to enable the District to efficiently perform its core business.

PROJECT LOCATION

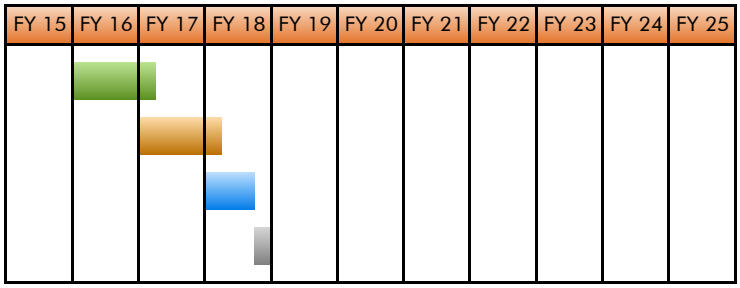


★ Project Location

SCHEDULE & STATUS

July 2014 to June 2018

Phase	Cost
Plan	4,276
Design	1,857
Construct	9,200
Closeout	23
	15,356



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
60204032-Headquarters Operations Building	0	219	1,357	4,557	9,223	0	0	0	15,356
with inflation	0	219	1,357	4,929	10,375	0	0	0	16,879

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
60204032-Headquarters Operations Building	0	219	0	1,357	4,929	10,375	0	0	0	16,879

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD General Fund	16,879
Other Funding Sources	0
Total	**16,879**

OPERATING COST IMPACTS

Operating costs will be determined during the design phase.

USEFUL LIFE: Not Available

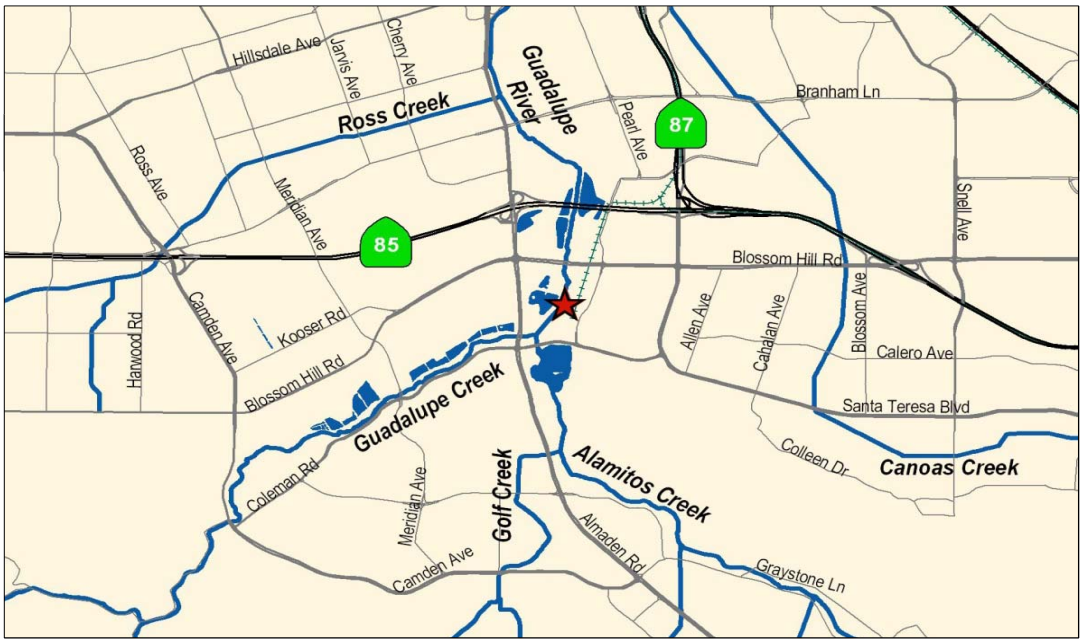
Project	**Winfield Capital Improvements**
Program	Buildings and Grounds
Priority No.	70
Project No.	60204021
District Contact	Katherine Oven koven@valleywater.org

A view of the District's Vegetation Management building on Winfield Blvd

PROJECT DESCRIPTION

This project is to repair, maintain and improve the Winfield Warehouse and Winfield Vegetation Buildings, to provide a healthy and safe environment for staff and visitors. This includes improving restroom and shower facilities, enclosing the open section of the warehouse and providing a safe and fully functioning Class IV workshop, seismic upgrades and a new roof.

PROJECT LOCATION

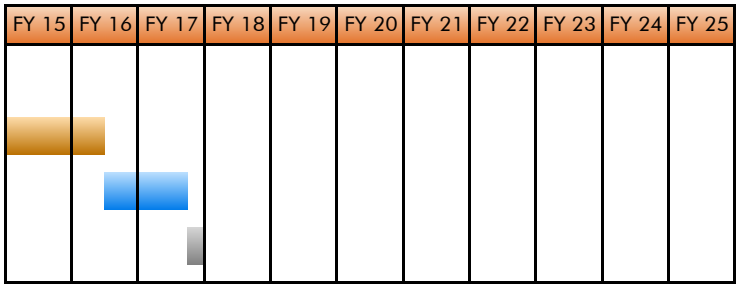


★ Project Location

SCHEDULE & STATUS

September 2012 to June 2017

Phase	Cost
Plan	157
Design	811
Construct	8,238
Closeout	25
	9,231



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
60204021-Winfield Capital Improvements	1,037	534	7,732	575	0	0	0	0	9,878
with inflation	1,037	534	7,732	622	0	0	0	0	9,925

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
60204021-Winfield Capital Improvements	1,685	7,577	7,691	41	622	0	0	0	0	9,925

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD General Fund	9,925
Other Funding Source	0
Total	9,925

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs.

USEFUL LIFE: Not Available

Information Technology Capital Improvements

INFORMATION TECHNOLOGY OVERVIEW

The District relies on its software systems and technology infrastructure to help manage its core responsibilities of water supply, flood protection, and environmental stewardship. Recognizing the importance of Information Technology to its success, the District completed the Information Systems Master Plan (ISMP) in 2012. The ISMP is an 8-year plan consisting of 32 capital and non-capital improvement projects.

In 2014, the Information Technology Capital Fund was created, it accounts for the costs to aquire, and install capital information technology projects with District-wide benefit. Projects include acquisition and replacement of computers, networks, and communications systems as well as major investments in enterprise software systems.

Costs are billed to user departments as Intra-District Computer Equipment Charges. Billing rates will be set to smooth charges over time by recovering current costs and accumulating reserves for major planned future projects. Current year charges or a combination of current year charges and reserves may be used to fund authorized projects. The purpose of this fund is to provide adequate resources while avoiding peaks and valleys in charges to user departments.

Major Capital Improvements Identified in the CIP

- Information Technology Disaster Recovery
- PeopleSoft System Upgrade and Expansion
- Data Consolidation
- Software Upgrades & Enhancements
- WTP-WQL Network Equipment

PRIORITY PROCESS AND FINANCIAL ANALYSIS

A rigorous priority setting process was conducted to rate the information technology projects against other types of capital improvements. The priority criteria used are included in Appendix A.

Financial analysis of the Information Technology Capital Fund was conducted to determine if there are limitations to funding the planned capital projects. Results of this year's prioritization process and financial analysis are summarized in Appendix B. Funding needs for approved Information Technology projects can be met.

Information Technology Capital Improvements

The following table is a project funding schedule for information technology capital improvements resulting from this year's priority process and financial analysis. Detailed information for each project can be found in this document on the following pages in the order presented in this table. The chart also identifies partially funded projects and estimated unspent appropriation from FY 2014-15.

Information Technology Capital Improvements ($K)

Project Number	PROJECT NAME	Through FY14	FY15	FY15 Unspent	FY16	FY17	FY18	FY19	FY20	FY21-30	TOTAL
73274009	Data Consolidation	-	-	-	336	339	281	292	-	-	1,248
73274001	IT Disaster Recovery	-	208	8	354	269	-	-	-	-	831
60274062s	PeopleSoft System Upgrade & Expansion	1,199	4,463	3,513	-	94	-	-	-	-	5,756
73274008	Software Upgrades & Enhancements	-	-	-	1,224	127	195	567	484	11,348	13,945
95274003	WTP-WQL Network Equipment	-	473	8	267	82	93	97	27	3,987	5,026
	TOTAL	1,199	5,144	3,529	2,181	911	569	956	511	15,335	26,806

FY 2014-15 Funds to be reappropriated

The following table shows funding requirements from each funding source for information technology capital improvements.

Information Technology – Funding Sources ($K)

Fund Number	FUND NAME	Through FY14	FY15	FY15 Unspent	FY16	FY17	FY18	FY19	FY20	FY21-30	TOTAL
61	Water Utility Enterprise Fund	-	473	8	267	82	93	97	27	3,987	5,026
11	General Fund	1,199	-	-	-	-	-	-	-	-	1,199
73	Information Technology Fund	-	4,671	3,521	1,914	829	476	859	484	11,348	20,581
	TOTAL	1,199	5,144	3,529	2,181	911	569	956	511	15,335	26,806

FY 2014-15 Funds to be reappropriated

Project	**Data Consolidation**
Program	Information Technology
Priority No.	40
Project No.	73274009
District Contact	Sudhanshu Tikekar STikekar@valleywater.org

No Photo is provided for this project.

PROJECT DESCRIPTION

This project plans, designs, and implements improvements to Data Consolidation to accomplish the following objectives:

- Implement a Enterprise Content Management system with strong Business Intelligence.
- Move from a applications centric model (current) to a data centric model thereby removing silos of data stores.
- Information management for big data. Manage data as a strategic, core asset, with ongoing process and management control for big data analytics.
- High-Performance analytics for big data. Gain rapid insights from big data and the ability to solve increasingly complex business problems.
- Reduce the overall data footprint. Identify duplicate, and unstructured data and delete it.

PROJECT LOCATION

No Map is provided for this project

SCHEDULE & STATUS

July 2015 to June 2019

Phase	Cost
Plan	-
Design	-
Construct	1,149
Closeout	-
	1,149

FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
73274009-Data Consolidation	0	0	336	313	250	250	0	0	1,149
with inflation	0	0	336	339	281	292	0	0	1,248

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
73274009-Data Consolidation	0	0	0	336	339	281	292	0	0	1,248

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Information Technology Fund	1,248
Other Funding Sources	0
Total	**1,248**

OPERATING COST IMPACTS

Ongoing annual costs will need to be determined and be based on implemented solutions.

USEFUL LIFE: Not Available

Project	**Information Technology Disaster Recovery**
Program	Information Technology
Priority No.	54
Project No.	73274001
District Contact	Sudhanshu Tikekar stikekar@valleywater.org

Existing Data Center that houses critical servers supporting the District's normal operations

PROJECT DESCRIPTION

This project plans and designs improvements to Information Technology to accomplish the following objectives:

- Enable coordinated, rapid recovery from a disaster.
- Reduce the District's business risk exposure.

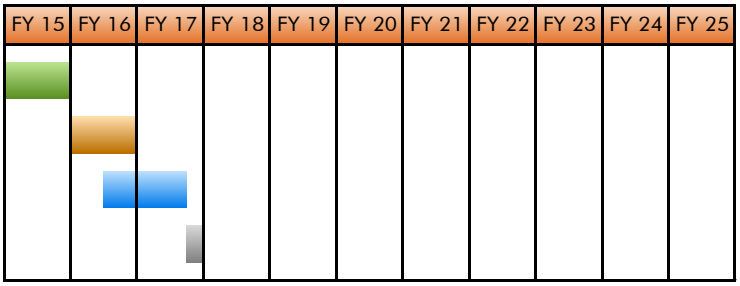
PROJECT LOCATION

No Map is provided for this project

SCHEDULE & STATUS

July 2014 to June 2017

Phase	Cost
Plan	200
Design	112
Construct	500
Closeout	-
	812



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
73274001-Information Technology Disaster Recovery	0	200	362	250	0	0	0	0	812
with inflation	0	200	362	269	0	0	0	0	831

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
73274001-Information Technology Disaster Recovery	208	0	8	354	269	0	0	0	0	831

FUNDING SOURCES

(in thousands $)

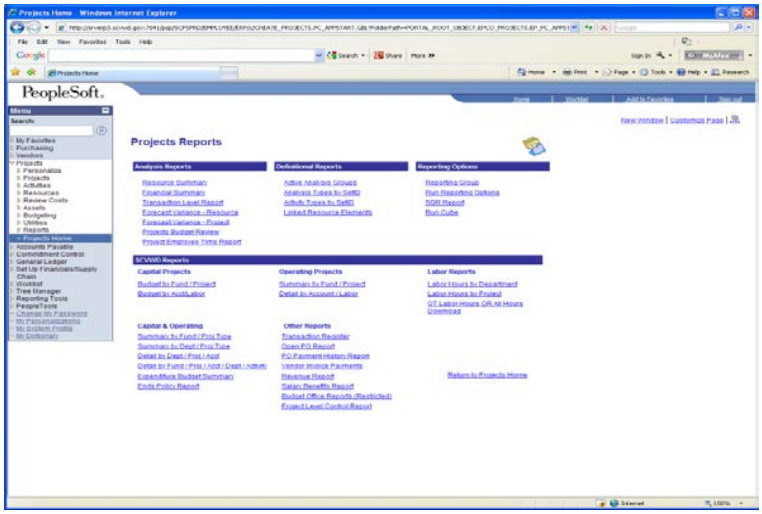
SCVWD Information Technology Fund	831
Other Funding Sources	0
Total	831

OPERATING COST IMPACTS

Ongoing annual costs will need to be determined and be based on implemented solutions.

USEFUL LIFE: Not Available

Project	**PeopleSoft System Upgrade and Expansion**
Program	Information Technology
Priority No.	70
Project No.	60274062s
District Contact	Sudhanshu Tikekar stikekar@valleywater.org



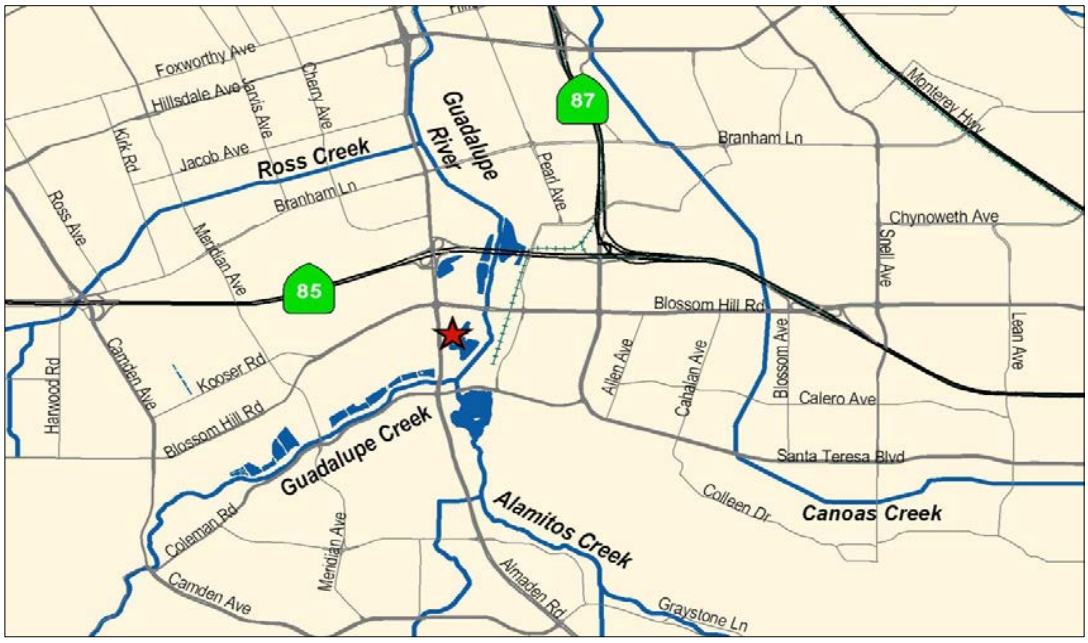
Screenshot of PeopleSoft Reports page
from the District's intranet

PROJECT DESCRIPTION

This project plans, designs, and implements improvements to the existing PeopleSoft system in order to accomplish the following objectives:

- Ensure the District has a current and functionally robust enterprise resource planning (ERP) solution, incorporating finance/human resource, timekeeping, planning and budgeting, and procurement functionality.
- Fully automate the District's financial and human resources management functions.
- Automate the tracking and reporting of the District's labor effort and employee leave.
- Automatically apply the District's business rules to employee time records.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

July 2013 to February 2018

Phase	Cost
Plan	-
Design	-
Construct	5,439
Closeout	-
	5,439

FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
60274062-PeopleSoft System Upgrade and Expansion	1,199	0	0	0	0	0	0	0	1,199
with inflation	1,199	0	0	0	0	0	0	0	1,199
73274002-PeopleSoft System Upgrade and Expansion	0	950	1,768	1,700	0	0	0	0	4,418
with inflation	0	950	1,768	1,839	0	0	0	0	4,557
TOTAL	1,199	950	1,768	1,700	0	0	0	0	5,617
with inflation	1,199	950	1,768	1,839	0	0	0	0	5,756

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
60274062-PeopleSoft System Upgrade and Expansion	1,199	0	0	0	0	0	0	0	0	1,199
73274002-PeopleSoft System Upgrade and Expansion	0	4,463	3,513	0	94	0	0	0	0	4,557
TOTAL	1,199	4,463	3,513	0	94	0	0	0	0	5,756

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD General Fund	1,199
SCVWD Information Technology Fund	4,557
Total	5,756

OPERATING COST IMPACTS

Upon completion of this project, one full-time employee will be needed for expanded technical support for new system modules and features and to continue with operational refinements, enhancements, integrations, report development, etc. on an on-going annual basis. PeopleSoft software maintenance fees are required on an annual recurring basis and projected to increase by three percent each year. The projected annual software maintenance fee for FY 2019 is approximately $164,324.

USEFUL LIFE: 5 Years

Project	**Software Upgrades & Enhancements**
Program	Information Technology
Priority No.	55
Project No.	73274008
District Contact	Sudhanshu Tikekar stikekar@valleywater.org

Existing District Systems to be upgraded and enahanced

PROJECT DESCRIPTION

This project provides upgrade and enhancement services to existing District systems including GIS, Maximo, Oracle Development system, internal and external District websites, and related databases. Previously, software upgrades were budgeted to their individual respective maintenance and support projects. This new project aims to consolidate upgrade activities into a single project for better organization, planning and budgeting purposes (the exception is Peoplesoft which has its own upgrade project).

The objective of this project is to regularly upgrade existing software packages to:

- Reduce current risks associated with being on a software version that is no longer supported by the vendor and is running on outdated operating systems.
- Increase the level of service provided by the software with new functionalities.

PROJECT LOCATION

No Map is provided for this project

SCHEDULE & STATUS

July 2015 to June 2030

Phase	Cost
Plan	-
Design	-
Construct	9,896
Closeout	-
	9,896

FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
73274008-Software Upgrades & Enhancements	0	0	1,224	117	173	485	398	7,499	9,896
with inflation	0	0	1,224	127	195	567	484	11,348	13,944

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
73274008-Software Upgrades & Enhancements	0	0	0	1,224	127	195	567	484	11,348	13,944

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Information Technology Fund	13,944
Other Funding Sources	0
Total	13,944

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

Project	**WTP-WQL Network Equipment**
Program	Information Technology
Priority No.	54
Project No.	95274003
District Contact	Sudhanshu Tikekar stikekar@valleywater.org

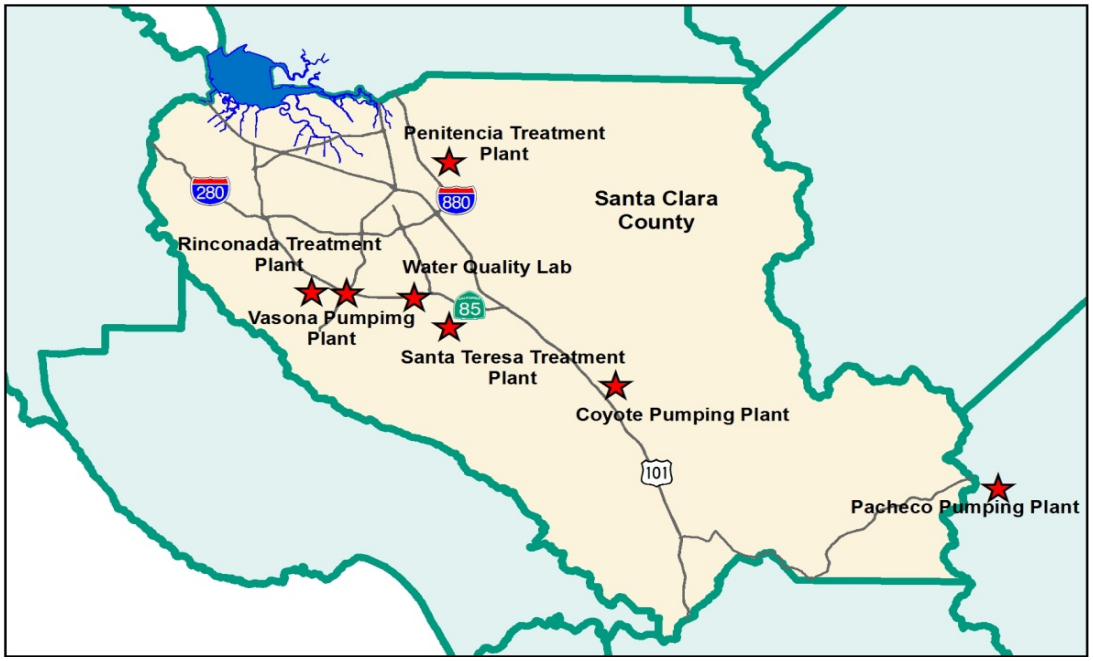
View of network equipment to be modernized at the Water Quality Lab

PROJECT DESCRIPTION

This project plans, designs, and implements upgrades to the existing network to ensure that the District has a current and robust computer network to accomplish the following objectives:

- Deliver greater access speeds.
- Restore vendor maintenance.
- Improve software application performance.
- Provide a path to meet future data communications needs.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

July 2014 to June 2027

Phase	Cost
Plan	-
Design	-
Construct	3,777
Closeout	-
	3,777

FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY14	FY15	FY16	FY17	FY18	FY19	FY20	Future	
95274003-WTP-WQL Network Equipment	0	465	275	76	83	83	22	2,773	3,777
with inflation	0	465	275	82	93	97	27	3,987	5,027

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY14	FY15		FY16	FY17	FY18	FY19	FY20	Future	
95274003-WTP-WQL Network Equipment	0	473	8	267	82	93	97	27	3,987	5,027

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	5,027
Other Funding Sources	0
Total	5,027

OPERATING COST IMPACTS

Upon completion of this project operating costs are anticipated to increase by $37,000 beginning in FY2028 with an increase of 3% each year after that to pay for hardware maintenance agreements.

USEFUL LIFE: 10 Years

Financial Planning and Summary

CIP FINANCIAL PLANNING

Board policy regarding financial planning and budgeting provides the foundation for CIP financial planning. The policy states:

Executive Limitation EL-4, "Financial planning for any fiscal year shall be aligned with the Board's Ends, not risk fiscal jeopardy, and be derived from a multi-year plan."

> Executive Limitation EL-4.3, "A BAO shall include credible projection of revenues and expenses, separation of capital and operational items, cash flow, and disclosure of planning assumptions."
>
> Executive Limitation EL-4.4, "A BAO shall plan the expenditure in any budget period within the funds that are conservatively projected to be received or appropriated from reserves in that period."

KEY REVENUES SOURCES

Water Charges

- Water charges include a ground water production charge, which is equivalent to the basic user charge, and is associated with the benefit of managing groundwater supplies. The groundwater charge is applied to water extracted from the groundwater basin in Zones W-2 and W-5. The basic user charge is applied to other types of water delivered by the District. There are two rates: one for agricultural water and one for municipal and industrial water.

- A treated water surcharge, which is associated with the benefit of receiving treated water, is levied in addition to the basic user charge on water delivered from the District's water treatment plants.

Property Tax

Santa Clara County allocates property tax revenue to the District from ad valorem taxes levied on land within the county.

Special Parcel Tax

A special parcel tax, with a 2016 sunset, was approved by the voters in Santa Clara County in November 2000. This revenue source was restricted to financing the costs of the District's Clean, Safe Creeks and Natural Flood Protection Program. In November 2012 the special parcel tax was continued by voter approval to 2028. This revenue can be used for both the continuing Clean, Safe Creeks and new Safe, Clean Water programs.

Benefit Assessments

Benefit assessment revenue consists of levies approved by voters in 1986 and 1990 to support financing for flood control capital improvements. The current FY 2015-16 budget amount is approximately 1.25 times the duly authorized annual debt service requirements for each Watershed.

Capital Reimbursements

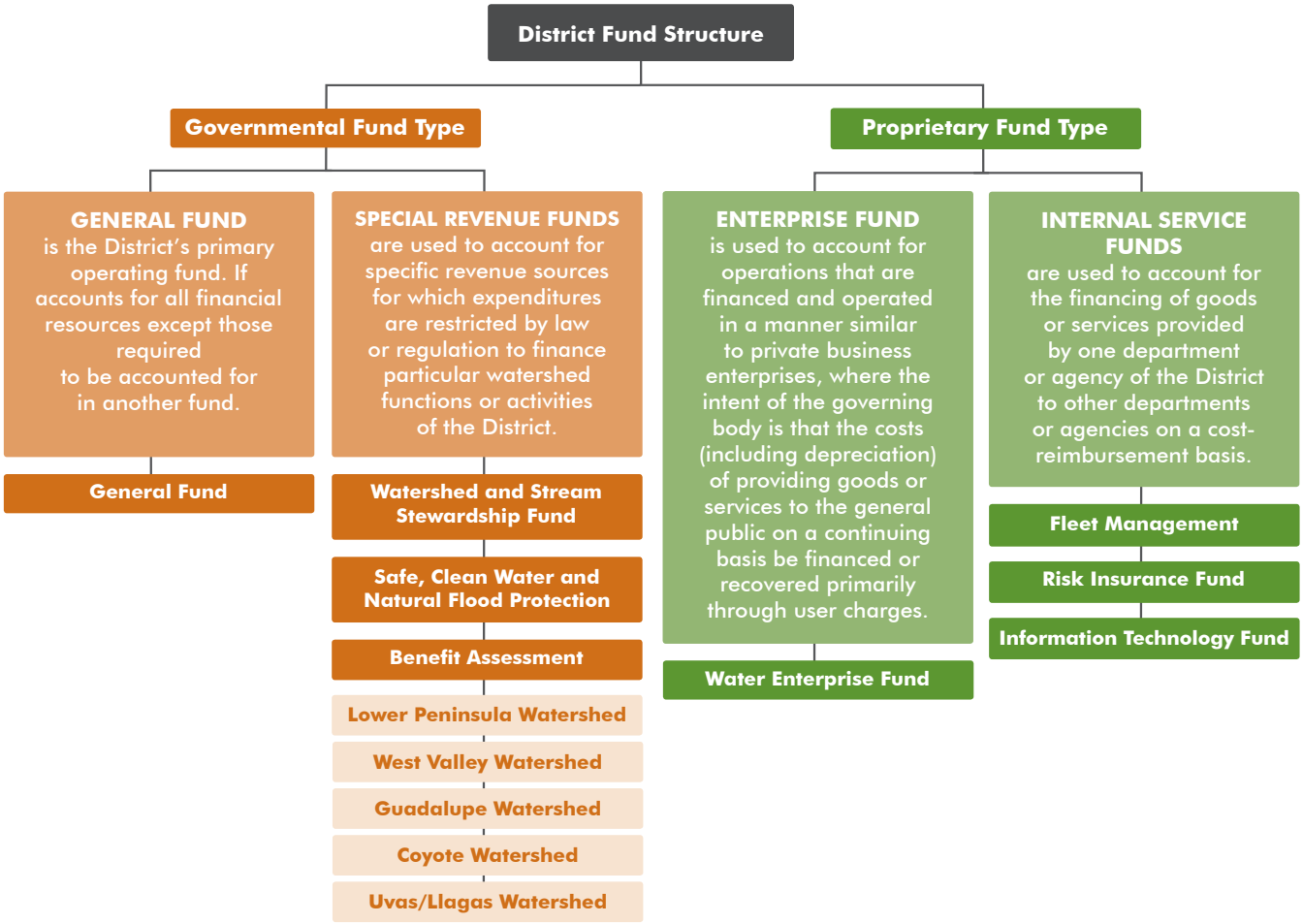
Capital reimbursement revenues are from local, state and federal partners for capital projects carried on cooperatively by the District and its partners. The District fronts the partners' shares of capital expenditures and receives reimbursements from the partners at a later time.

Interest

Interest is earned from the District's investment portfolio.

District Fund Structure

The District's revenue sources are organized into eight funds. Each fund has specific revenue sources according to their intended purposes, and each fund is an independent accounting entity with a self-balancing set of accounts comprised of its assets, liabilities, fund equity, revenue, and expenditures or expenses, as appropriate.



Revenue by Fund ($K)

FUND NAME	FY15 Budget	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25
Water Utility Enterprise	192,599	225,027	245,691	282,808	329,103	342,110	363,364	392,237	407,878	433,662	468,063
Watershed Stream Stewardship	77,756	86,618	84,337	73,170	72,432	73,935	76,846	80,018	83,388	86,967	90,740
Safe, Clean Water and Natural Flood Protection	44,848	44,843	81,774	51,408	54,487	54,926	49,594	50,508	52,438	54,559	56,963
Benefit Assessment	16,079	14,778	14,785	14,778	14,778	13,447	13,458	13,457	13,448	13,443	6,850
General	5,866	6,060	6,273	6,493	6,721	6,957	7,201	7,454	7,716	7,987	8,268
Internal Service	145	155	208	207	210	221	205	204	225	230	220
TOTAL	337,292	377,481	433,067	428,863	477,730	491,597	510,668	543,879	565,093	596,848	631,104

Note: Internal Service Funds (ISF) is the combination of the Fleet Management, IT Capital, and Risk Funds

Revenue Projections

The District regularly updates the projected revenues based on the best information available.

- Revenues from water charges are estimated based on projections of water demand for residential, commercial and industrial, and agricultural consumption combined with rates per acre-foot. Rates are set at a level that will provide revenue needed to meet operating and capital needs.
- Revenues from property taxes, special parcel taxes, and benefit assessments are estimated based on projection of growth in assessed value and number of developed parcels in Santa Clara County.
- Interest earnings are estimated based on the projected average cash balances during the fiscal year and expected yield from the District's investment portfolio.
- Revenue from capital reimbursements partnerships are estimated based on the terms of agreements executed by the District and its partners.

Expenditure Projections

The District regularly updates the operation and capital expenditures based on the best information available.

Each capital project cost estimate includes the yearly expenditures through completion based on the project's scope and schedule. The expenditures are monitored regularly and updated when necessary, e.g. expenditures are updated when a project's scope changes. A management review process is enforced to ensure only justified expenditure changes are approved.

Operation cost projections for the next 15 years are updated annually and are based on assumptions derived from the District's strategic plans, including the impact of completed capital projects. Capital and operations expenditure projections are the foundation for the development of the District's budget.

Financial Analysis

The District regularly performs financial analysis to comply with the Board's Financial Planning/Budgeting Policy. The District uses sophisticated financial models to perform the analysis for each fund. The projected operation expenditures, capital expenditures, and revenues for the next ten years are incorporated into the financial models to analyze the health of each fund under various economic scenarios. This process assures that funds will be available when needed to implement the CIP.

The financial analysis generates alternatives for funding capital projects based on the available yearly revenues, from all sources, allocated to the capital program, and the debt financing capacity of each fund. The financial analysis establishes the parameters within which the capital project schedule is developed.

Debt Projections and Debt Ratios

Debt is managed at the District depending on the type of District business involved. The SCW program approved by the voters in 2012 includes the authority to issue debt against future revenue in order to accelerate completion of projects sooner. Debt service on outstanding benefit assessment debt is funded by benefit assessments levied on property owners in the county.

The water utility business, on the other hand, uses a combination of short-term and long-term debt financing in conjunction with pay-as-you-go financing to lessen impacts to the water rate caused by fluctuations in capital funding needs. In the 1984 general election, Measure B was passed by the voters, which gave the District's water utility the authority to issue bonds on an "as required" basis. Debt service on outstanding debt is paid from water revenues. Bond covenants stipulate that the District must maintain a 1.25 debt coverage ratio on all parity bonds. The long-term financial analysis targets a debt coverage ratio of 2.0, which helps establish the parameters for capital planning that ensure bond covenants will be met.

The District currently enjoys credit ratings that are among the highest for a water-related governmental entity in the state of California, which helps keep interest costs borne by the District at a minimum.

Relationship between the Operating Budget and CIP

Whenever the District commits to capital improvements, there is a potential for associated long-range commitment of operating funds. For example, if 20-year bonds are issued to finance capital needs, then the operating funds will need to budget debt service payments for the next two decades. For this reason, it is important to evaluate capital commitments in the context of their long-range operating impact.

In addition to the long-range debt service payments, some capital projects affect future operating budgets either positively or negatively due to an increase or decrease in maintenance and operation costs. Such impacts vary widely from project to project and, are evaluated individually during the project development stage. The District is committing to a potential change in the operating budget when a capital project is approved.

The projected debt service payments and the positive or negative operating budget impacts are important factors considered in the District's financial analysis.

This chart identifies the operating budget impacts to each fund from projected debt service payments. The debt service payment in the Watershed Stream Stewardship Fund is a total of payments associated with each individual watershed.

Debt Payment Schedule ($K)

Fund	FY16	FY17	FY18	FY19	FY20
General Fund	538	538	538	538	540
Benefit Assessment Fund	12,200	12,168	12,162	12,162	11,085
Safe, Clean Water and Natural Flood Protection Fund	1,406	3,062	5,898	7,110	7,110
Water Utility Enterprise Fund	20,824	31,697	40,023	56,096	67,786
Information Technology Fund	-	-	-	-	-
TOTAL	34,968	47,465	58,621	75,907	86,522

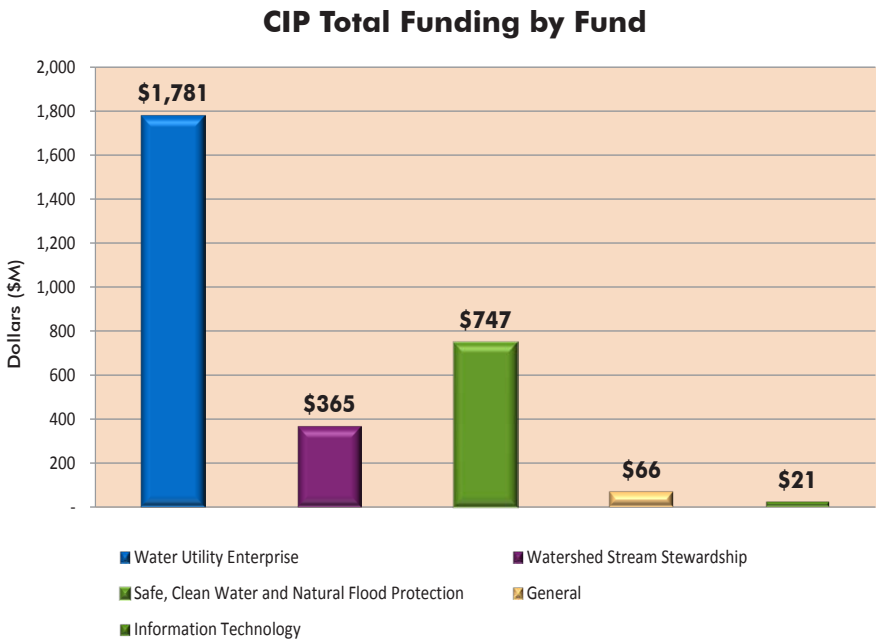
This chart identifies the net operating budget impacts to each fund resulting from annual maintenance and/or operating cost for newly completed capital projects. Additional information regarding operating impacts related to individual projects can be found on the project pages.

Estimated Operating Impacts ($K)

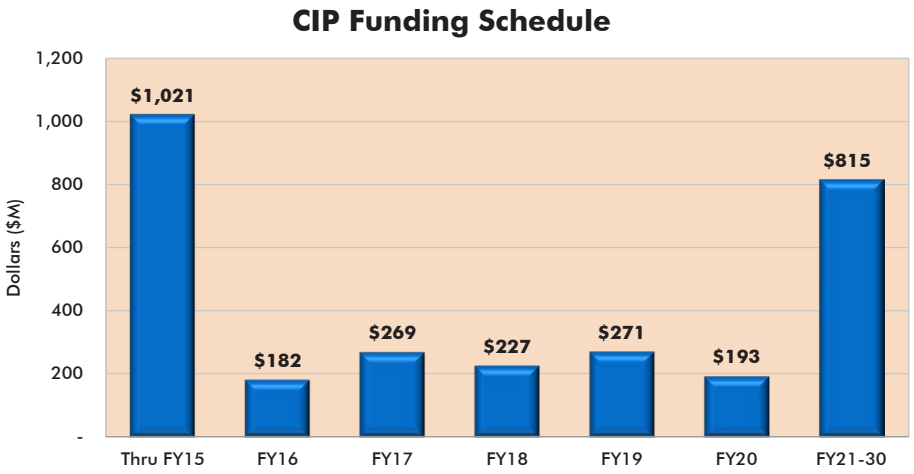
Fund	FY16	FY17	FY18	FY19	FY20	BEYOND
General Fund	-	-	-	-	-	-
Watershed Stream Stewardship Fund	65	65	100	100	100	100
Safe, Clean Water and Natural Flood Protection Fund	-	-	-	50	150	730
Water Utility Enterprise Fund	-	-	1,537	2,570	2,570	4,085
Information Technology Fund	-	-	-	164	169	174
TOTAL	65	65	1,637	2,884	2,989	5,089

CIP FUNDING SUMMARY

Of the $2.979 billion in total District funding for current and future projects, the Board appropriated $1.021 billion in prior years through June 30, 2015 (the end of Fiscal Year 2014-15). This year's CIP process identified additional funding needs of $1.958 billion to complete the projects in the CIP, with $182 million allocated in Fiscal Year 2015-16 and a total of $1.78 billion proposed for future years.



The needed $2.979 billion to implement the 66 projects as defined in the CIP are funded by four of the District's seven Funds.



The following chart shows the funding schedule for the $2.979 billion to implement the 66 projects.

CIP Project Funding Schedule for Water Utility Enterprise Fund ($K)

PROJECT NAME	Through FY14	FY15	FY15 Unspent	FY16	FY17	FY18	FY19	FY20	FY21-30	TOTAL
Almaden Dam Improvements	6,147	1,213	8	2,678	2,579	19,351	10,953	11,219	5,562	59,702
Anderson Dam Seismic Retrofit (C1)	23,770	6,460	362	1,006	21,091	52,218	56,287	39,243	-	200,075
Calero and Guadalupe Dams Seismic Retrofits	6,796	7,270	1,484	3,566	6,300	19,051	48,744	10,777	-	102,504
Coyote Pumping Plant Warehouse	-	610	-	297	2,316	-	-	-	-	3,223
Dam Seismic Stability Evaluation	12,288	6,524	2,104	-	-	-	416	608	633	20,469
Pacheco Pumping Plant ASD Replacement	19,578	-	4	22	11	-	-	-	-	19,611
Small Capital Improvements, San Felipe Reach 1-3	n/a	1,558	-	1,627	6,445	562	1,275	-	27,825	39,292
Vasona Pumping Plant Upgrade	-	-	-	-	1,449	1,789	18,395	85	-	21,718
5-Year Pipeline Rehabilitation	8,568	5,794	887	7,981	4,823	-	-	-	-	27,166
Alamitos Diversion Dam Improvements	838	-	1	-	1,013	1,442	-	-	-	3,293
Coyote Diversion Dam Improvements	323	-	1	-	119	1,325	827	-	-	2,594
Pacheco/Santa Clara Conduit Right of Way Acquisition	964	178	132	-	1,529	342	111	-	-	3,124
Penitencia Delivery Main/Force Main Seismic Retrofit	1,895	2,172	358	14,373	2,897	89	-	-	-	21,426
SCADA Remote Architecture & Communications Upgrade	370	-	342	32	389	405	643	852	4,501	7,192
Small Capital Improvements, Raw Water Transmission	n/a	468	-	38	158	119	-	55	3,575	4,413
Small Capital Improvements, Treated Water Transmission	n/a	-	-	-	58	-	88	-	-	146
TC HCP Implementation Fund	-	-	-	-	4,739	4,379	14,691	14,690	106,609	145,108
Fluoridation at WTPs	357	850	-	5,327	1,227	-	-	-	-	7,761
Infrastructure Reliability	1,699	474	262	280	-	-	-	-	-	2,453
IRP2 WTP Ops Bldgs Seismic Retrofit	13,792	5,894	3,424	706	960	-	-	-	-	21,352
PWTP Clearwell Recoating & Repair	1,594	2,922	3,270	303	578	-	-	-	-	5,397
PWTP Water Pumps Modification	3,036	151	2,217	-	236	361	-	-	-	3,784
RWTP FRP Residuals Management Modifications	24,984	1,038	1,018	74	254	-	-	-	-	26,350
RWTP Reliability Improvement	19,113	46,394	39,750	6,002	45,036	44,812	45,139	46,734	152	253,382
RWTP Treated Water Valves Upgrade	7,945	130	299	294	76	-	-	-	-	8,445
Small Capital Improvements, Water Treatment	n/a	2,175	-	3,509	3,420	1,480	3,511	3,520	31,151	48,766
Recycled Water Facilities' Expansion	-	1,500	-	16,500	-	-	16,030	16,832	523,605	574,467

FY 2014-15 Funds to be reappropriated

CIP Project Funding Schedule for Water Utility Enterprise Fund ($K) (cont'd)

PROJECT NAME	Through FY14	FY15	FY15 Unspent	FY16	FY17	FY18	FY19	FY20	FY21-30	TOTAL
Silicon Valley Advanced Water Purification Center	70,073	6,326	-	520	141	-	-	-	-	77,060
South County Recycled Water Pipeline	14,803	8,392	3,765	4,589	3,685	145	-	-	-	31,614
Wolfe Road Recycled Water Pipeline	800	9,808	8,790	6,563	720	-	-	-	-	17,891
FAHCE Stevens Creek Fish Passage Enhancement - 90%	765	-	-	-	1,304	2,900	-	-	-	4,969
SCW Implementation Fund	-	-	-	-	724	749	775	802	7,886	10,936
WTP-WQL Network Equipment	-	473	8	267	82	93	97	27	3,987	5,026
TOTAL	240,498	118,774	68,486	76,554	114,359	151,612	217,982	145,444	715,486	1,780,709

FY 2014-15 Funds to be reappropriated

Project Funding Schedule for Watershed and Stream Stewardship Fund ($K)

PROJECT NAME	Through FY14	FY15	FY15 Unspent	FY16	FY17	FY18	FY19	FY20	FY21-30	TOTAL
Palo Alto Flood Basin Tide Gate Structure Improvements	343	473	707	384	-	4,556	6	-	-	5,762
Permanente Creek, SF Bay to Foothill Expressway	17,541	-	177	-	-	-	-	-	-	17,541
San Francisquito Creek, SF Bay thru Searsville Dam	4,918	-	854	-	-	-	-	-	-	4,918
San Francisquito Creek, Early Implementation	1,614	-	-	-	-	-	-	-	-	1,614
San Tomas Creek, Quito Road Bridge Replacement	292	99	-	166	27	-	-	-	-	584
Canoas Creek, Rodent Damage Repair	-	300	-	4,029	-	-	-	-	-	4,329
Berryessa Ck, Lower Penitencia Ck to Calaveras Blvd	39,879	27,812	15,813	20,226	1,535	1,159	108	112	167	90,998
Cunningham Flood Detention Certification	2,717	1,741	2,770	-	2,556	4,169	2,263	255	-	13,701
Lower Penitencia Ck Improvements, Berryessa to Coyote Cks.	2,912	1,895	1,855	1,993	925	8,246	6,000	18	-	21,989
Lower Silver Creek, I-680 to Cunningham (Reach 4-6)	90,574	4,730	2,773	1,484	476	287	59	12	-	97,622
Upper Penitencia Ck, Coyote Ck-Dorel Dr, Corps	8,970	-	12	-	-	-	-	-	-	8,970
Upper Penitencia Ck, Coyote Ck-Dorel Dr, LERRDs	8,544	-	3,781	-	-	-	-	-	-	8,544
Llagas Creek–Lower, Capacity Restoration, Buena Vista Road to Pajaro River	11,626	-	3,978	-	-	-	-	-	-	11,626
Llagas Creek–Upper, R5,6,&7b	-	-	-	-	24,638	-	-	-	-	24,638
San Francisco Bay Shoreline	11,509	1,016	769	42	-	-	-	-	-	12,567
San Francisco Bay Shoreline - Contribution	490	-	-	-	-	-	-	-	-	490
Shoreline Early Implementation	359	-	-	-	-	-	-	-	-	359
Small Capital Improvements - Watersheds	-	700	-	700	701	700	699	-	-	3,500
FAHCE Stevens Creek Fish Passage Enhancement - 10%	85	-	-	-	145	322	-	-	-	552
FAHCE Stevens Creek Multi-Port Outlet at Dam - 10%	-	-	-	-	30	114	-	-	-	144
Salt Ponds A5-11 Restoration	-	1,168	-	1,518	1,794	804	2,028	-	-	7,312
SMP Mitigation, Stream and Watershed Land Preservation	11,128	3,076	1,717	795	703	714	-	-	-	16,416
SCW Implementation Fund	-	-	-	-	724	749	775	802	7,886	10,936
TOTAL	213,501	43,010	35,206	31,337	34,224	21,706	11,938	1,199	8,053	364,968

FY 2014-15 Funds to be reappropriated

Project Funding Schedule for Safe, Clean Water and Natural Flood Protection Fund ($K)

PROJECT NAME	Through FY14	FY15	FY15 Unspent	FY16	FY17	FY18	FY19	FY20	FY21-30	TOTAL
IRP2 Additional Line Valves (A3)	-	-	-	-	-	-	-	-	13,911	13,911
Main & Madrone Pipelines Restoration (A1)	-	630	-	1,177	10,869	133	-	-	-	12,809
Permanente Creek, SF Bay to Foothill Expressway	36,015	9,013	34,894	-	3,668	281	117	-	-	49,094
San Francisquito Creek, SF Bay thru Searsville Dam (E5)	6,684	-	1,150	98	54	-	-	-	-	6,836
San Francisquito Creek - Construction, SF Bay to Middlefield Road (E5)	19,194	6,440	22,218	6,788	12,440	1,687	-	-	-	46,549
Sunnyvale East and West Channels	28,234	17,644	32,053	299	22,077	56	-	-	-	68,310
Guadalupe River–Upper, I-280 to Blossom Hill Road (E8)	112,193	386	16,658	302	24,138	7,913	10,586	11,088	14,573	181,179
Berryessa Creek, Calaveras Boulevard to Interstate 680	28,839	6	1,980	3,839	13,741	956	1,000	893	-	49,274
Coyote Creek, Montague Expressway to Interstate 280	30,486	-	17,886	-	-	-	2,877	1,052	1,630	36,045
Upper Penitencia Ck, Coyote Ck-Dorel Dr, Corps (E4)	-	-	-	385	5,023	6,134	6,379	18,116	17,143	53,180
Llagas Creek–Upper, Reimbursable (E6b)	41,333	337	25,454	962	-	-	-	-	-	42,632
Llagas Creek–Upper, Corps Coordination (E6a)	3,633	15,276	(88)	50,384	5,671	-	-	-	-	74,964
Llagas Creek–Upper, Technical Studies	1,446	-	-	-	-	-	-	-	-	1,446
Llagas Creek–Upper, Design	16,830	2,025	1,195	726	-	-	-	-	-	19,581
San Francisco Bay Shoreline - EIA 11 Design & Partial Construction (E7)	-	6,239	6,139	309	5,695	4,499	4,720	4,951	-	26,413
San Francisco Bay Shoreline - Other EIAs Planning (E7)	1,406	823	-	1,695	1,763	-	-	-	-	5,687
Almaden Lake Improvements (D4.1a)	864	1,153	-	705	1,129	-	-	-	-	3,851
Hale Creek Enhancement Pilot Study	-	516	416	-	108	1,687	-	-	-	2,311
SCW Fish Passage Improvements (D4.3)	-	-	-	1,461	2,291	1,547	1,500	-	-	6,799
South Bay Salt Ponds Restoration (D8)	188	329	-	18	280	1,840	1,937	-	-	4,592
SCW Implementation Fund, Comer Debris Basin (D6.2)	-	-	-	-	-	290	1,184	218	-	1,692
SCW Implementation Fund, Creek Bank Stability (D6.1)	-	-	-	-	-	4,277	4,540	6,210	-	15,027
SCW Implementation Fund, Ogier Ponds Separation from Coyote Creek (D4.1b)	-	-	-	-	2,518	8,560	2,307	-	-	13,385
SCW Impelementation Fund, Regionally Significant Habitat Land Acquisition (D7)	-	-	-	-	724	749	775	802	7,886	10,936
TOTAL	327,345	60,817	159,955	69,148	112,189	40,609	37,922	43,330	55,143	746,503

FY 2014-15 Funds to be reappropriated

Project Funding Schedule for General Fund ($K)

PROJECT NAME	Through FY14	FY15	FY15 Unspent	FY16	FY17	FY18	FY19	FY20	FY21-30	TOTAL
Almaden and Winfield Campus, Small Capital Improvements	n/a	2,080	-	1,880	2,341	2,250	2,360	2,475	24,782	38,168
Headquarters Operations Building	-	219	-	1,357	4,929	10,375	-	-	-	16,880
Winfield Capital Improvements	1,685	7,577	7,691	41	622	-	-	-	-	9,925
PeopleSoft System Upgrade & Expansion	1,199	-	-	-	-	-	-	-	-	1,199
TOTAL	2,884	9,876	7,691	3,278	7,892	12,625	2,360	2,475	24,782	66,172

FY 2014-15 Funds to be reappropriated

Project Funding Schedule for Information Technology Fund ($K)

PROJECT NAME	Through FY14	FY15	FY15 Unspent	FY16	FY17	FY18	FY19	FY20	FY21-30	TOTAL
Data Consolidation	-	-	-	336	339	281	292	-	-	1,248
IT Disaster Recovery	-	208	8	354	269	-	-	-	-	831
PeopleSoft System Upgrade & Expansion	-	4,463	3,513	-	94	-	-	-	-	4,557
Software Upgrades & Enhancements	-	-	-	1,224	127	195	567	484	11,348	13,945
TOTAL	-	4,671	3,521	1,914	829	476	859	484	11,348	20,581

FY 2014-15 Funds to be reappropriated

CIP Funding Schedule Summary for All Funds ($K)

FUND NAME	Through FY14	FY15	FY15 Unspent	FY16	FY17	FY18	FY19	FY20	FY21-30	TOTAL
Water Utility Enterprise	240,498	118,774	68,486	76,554	114,359	151,612	217,982	145,444	715,486	1,780,709
Watershed Stream Stewardship	213,501	43,010	35,206	31,337	34,224	21,706	11,938	1,199	8,053	364,968
Safe, Clean Water and Natural Flood Protection	327,345	60,817	159,955	69,148	112,189	40,609	37,922	43,330	55,143	746,503
General	2,884	9,876	7,691	3,278	7,892	12,625	2,360	2,475	24,782	66,172
Information Technology	-	4,671	3,521	1,914	829	476	859	484	11,348	20,581
TOTAL	784,228	237,148	274,859	182,231	269,493	227,028	271,061	192,931	814,812	2,978,932

FY 2014-15 Funds to be reappropriated

WATER SUPPLY CAPITAL PROJECTS

Priority Ranking Criteria

PRIORITY SCORE = 0

Project Name Here

RAW SCORE = 0

PRIMARY OBJECTIVE (75%)

Water Supply (E 2) Impact = ; Probability = 0.00

A ☐ Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements. **(H+, H-, M+, M-, L)**

B ☐ Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. **(H, M, L)**

C ☐ Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. **(I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))**

COMMUNITY ENGAGEMENT (7.5%)

Social Factor - Check if applicable 0.00

☐ Promotes Emergency Recovery

Positive Interaction (E 4) - Check all that apply

☐ With the Community ☐ With other agencies

ENVIRONMENTAL SUSTAINABILITY (7.5%)

Water Quality (E 3.2) - Check if applicable 0.00

☐ Promotes drinking water quality

Natural Resources Sustainability (E 3.2) - Check all that apply

☐ Promotes water use efficiency ☐ Promotes energy efficiency or incorporates energy efficient features

☐ Promotes stream management

COST RECOVERY (10%)

Lifecycle costs are minimized - Check One 0.00

☐ Annual cost savings of more than $250,000

☐ Annual cost savings of $50,000 to $250,000

☐ Annual cost savings of less than $50,000 (reference ½ PY)

Funding Available from Other Agencies - Check One

☐ Over 50% of project costs available from other agencies

☐ 26% to 50% of project costs available from other agencies

☐ Up to 25% of project costs available from other agencies

FLOOD PROTECTION PROJECTS

Priority Ranking Criteria

PRIORITY SCORE = 0

Project Name Here

RAW SCORE = 0

PRIMARY OBJECTIVE (60%)

Flood Protection (E 3) Impact = ; Probability = 0.00

- ☐ Project restores existing watershed infrastructure to its intended level of flood protection.
- ☐ Project improves watershed infrastructure to achieve the committed level of flood protection.
- ☐ Project improves watershed infrastructure to provide flood protection beyond the level of commitment.

COMMUNITY ENGAGEMENT (10%)

Positive Interaction (E 4) - Check all that apply 0.00

- ☐ With the Community
- ☐ With other agencies

Good Neighbor (E 4) - Check all that apply

- ☐ Graffiti removal or Prevention Features
- ☐ Trash removal features (vortex weirs)
- ☐ Improves aesthetics of project location

ENVIRONMENTAL SUSTAINABLITY (15%)

Ecological Function (E 3.1, 4.1) - Check all that apply 0.00

- ☐ Fish Barrier Removal / Structural improvement to fish habitat
- ☐ Upland Habitat Protection/Preservation
- ☐ Riparian Habitat (planting, setback or protect in place)
- ☐ Wetland Habitat Protection/Preservation
- ☐ SRA Plantings or Improved water temperature
- ☐ Hardscape Reduction
- ☐ Habitat Connectivity

Physical Stream Function (E 3.2) - Check all that apply

- ☐ Holistic Watershed Approach
- ☐ Erosion Control (Sediment Source Reduction)
- ☐ Geomorphic Design Elements
- ☐ Floodplain Connectivity

Water Quality and Supply (E 3.2) - Check all that apply

- ☐ Storm Water Treatment
- ☐ Provides opportunity for recharge
- ☐ TMDL Improvements

Trails & Open Space (E4.2, E4.3) - Check all that apply

- ☐ Trail friendly features
- ☐ Open Space Protection / Preservation
- ☐ Provides/Improves Bicycle Commute Route

COST RECOVERY (15%)

Funding Available from Other Agencies - Check One 0.00

- ☐ Over 50% of project costs available from other agencies
- ☐ 26% to 50% of project costs available from other agencies
- ☐ Up to 25% of project costs available from other agencies

WATER RESOURCES STEWARDSHIP PROJECTS

Priority Ranking Criteria

PRIORITY SCORE = **0**

Projecct Name

RAW SCORE = 0

PRIMARY OBJECTIVE (55%)

Stewardship Projects Impact = ; Probability = 0.00

A ☐ Project restores a previously constructed environmental enhancement so that it can continue to provide the benefits for which it was created. or Project meets a permit condition/ requirement.

B ☐ Project creates Stewardship features to achieve stewardship commitments.

C ☐ Stewardship activities beyond the current commitment.

COMMUNITY ENGAGEMENT (15%)

Positive Interaction (E 4) - Check all that apply 0.00

☐ With the Community

☐ With other agencies

Good Neighbor (E 4) - Check all that apply

☐ Graffiti removal or Prevention Features

☐ Trash removal features (vortex weirs)

☐ Improves aesthetics of project location

Education Element

☐ Promotes water conservation

☐ Promotes stream stewardship

☐ Promotes flood protection

☐ Promotes Bay protection

ENVIRONMENTAL SUSTAINABLITY (15%)

Ecological Function (E 3.2) - Check all that apply 0.00

☐ Fish Barrier Removal / Structural or nonstructural improvement to fish habitat

☐ Riparian Habitat (planting, setback or protect in place)

☐ SRA Plantings or Improved water temperature

☐ Upland Habitat Protection/Preservation

☐ Wetland Habitat Protection/Preservation

☐ Hardscape Reduction

Physical Stream Function (E 3.2) - Check all that apply

☐ Holistic Watershed Approach

☐ Geomorphologic Design Elements

☐ Erosion Control or Sediment Source Reduction

Water Quality (E 3.2) - Check all that apply

☐ Storm Water Treatment (pervious pavement, green roofs, etc.)

☐ TMDL Improvements

☐ Hazardous Material Removal (Asbestos, Lead, Hydrocarbons, etc.)

Trails & Open Space (E3.3) - Check all that apply

☐ Trail friendly features

☐ Provides/Improves Bicycle Commute Route

☐ Open Space Protection / Preservation

☐ Climate change elements

COST RECOVERY (15%)

Funding Available from Other Agencies - Check One 0.00

☐ Over 50% of project costs available from other agencies

☐ 26% to 50% of project costs available from other agencies

☐ Up to 25% of project costs available from other agencies

BUILDINGS & GROUNDS PROJECTS

Priority Ranking Criteria

PRIORITY SCORE = 0

Project Name

RAW SCORE = 0

PRIMARY OBJECTIVE (60%)	**Buildings and Grounds (EL 3.4)**	Impact = ; Probability =	0.00
	A ☐ Project maintains or replaces existing building infrastructure to provide continuous housing of existing functions and/or to comply with employer safety standards.		
	B ☐ Project enhances building infrastructure to address treatment of staff issues.		
	C ☐ Project positions the District to meet projected future space needs.		
COMMUNITY ENGAGEMENT (10%)	**Positive Interaction (E 4)** - Check all that apply		0.00
	☐ With the Community	☐ With other agencies	
	Good Neighbor (E 4) - Check all that apply		
	☐ Graffiti removal or Prevention Features		
	☐ Trash removal features (vortex weirs)		
	☐ Improves esthetics of project location		
ENVIRONMENTAL SUSTAINABILITY (15%)	**Natural Resources Sustainability (E 3.2)** - Check all that apply		0.00
	☐ Air Quality & Visibility Improvement	☐ Recycled Water, rain water or gray water utilized	
	☐ Energy Efficient Features (Lighting, HVAC, maximize daylight use, etc.)	☐ Construction Site Waste Management	
		☐ Recycle/Re-use Solid Waste	
	☐ Renewable Energy Use	☐ Reduce Solid Waste Production	
	☐ Water Efficient Features: Plumbing fixtures, Landscaping, etc.	☐ Use of Recycled or Alternative Building Materials	
	Trails & Open Space (E3.3) - Check all that apply		
	☐ Trail friendly features	☐ Open Space Protection / Preservation	
	☐ Provides/Improves Bicycle Commute Route		
COST RECOVERY (15%)	**Funding Available from Other Agencies (Grants & Cost-share) - Check One**		0.00
	☐ Over 50% of project costs available from other agencies		
	☐ 26% to 50% of project costs available from other agencies		
	☐ Up to 25% of project costs available from other agencies		

INFORMATION TECHNOLOGY PROJECTS

Priority Ranking Criteria

PRIORITY SCORE = 0

Project Name

SCORE = 0

PRIMARY OBJECTIVE (90%)	**Information Technology (EL 7.5)**	Impact = ; Probability =	0.00
	A ☐ Project maintains existing mission critical software systems and/or IT infrastructure to improve reliability for business continuity. **(H+, H-, M+, M-, L)**		
	B ☐ Project enhances mission critical software systems and/or IT infrastructure to improve user functionality. **(H, M, L)**		
	C ☐ Project enhances mission critical software systems and/or IT infrastructure to meet projected future needs. **(H, M, L)**		
	D ☐ Ties into IT master Plan finding and/or recommendations (10 pts.)		
COST RECOVERY (10%)	**Funding Available from Other Agencies** - Check One		0.00
	☐ Over 50% of project costs available from other agencies		
	☐ 26% to 50% of project costs available from other agencies		
	☐ Up to 25% of project costs available from other agencies		

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Water Supply Capital Projects in Order of Priority

FUNDED

Priority	Name
100	Dam Safety Program Seismic Stability
97	Anderson Dam Seismic Retrofit
92	Calero and Guadalupe Dams Seismic Retrofits
91	RWTP Reliability Improvement
87	RWTP FRP Residuals Management Modifications
87	RWTP Treated Water Valves Upgrade
84	Penitencia Delivery Main/Force Main Seismic Retrofit
80	Pacheco Pumping Plant ASD Replacement
75	PWTP Water Pumps Modification
72	Alamitos Diversion Dam Improvements
72	Coyote Diversion Dam Improvements
72	Small Capital Improvements, Raw Water Transmission
71	Vasona Pumping Plant Upgrade
70	Main & Madrone Pipelines Restoration
70	IRP2 WTP Ops Bldgs Seismic Retrofit
68	PWTP Clearwell Recoating & Repair
67	Small Capital Improvements, Water Treatment
66	Small Capital Improvements, San Felipe Reach 1-3
65	Small Capital Improvements, Treated Water Transmission
63	TC HCP Implementation Fund
60	Pacheco/Santa Clara Conduit Right of Way Acquisition
56	5-Year Pipeline Rehabilitation
51	Fluoridation at WTPs
48	SCADA Remote Architecture & Communications Upgrade
40	Almaden Dam Improvements
40	IRP2 Additional Line Valves
38	Recycled Water Facilities' Expansion
32	Wolfe Road Recycled Water Pipeline
30	Infrastructure Reliability
23	Coyote Pumping Plant Warehouse
17	Silicon Valley Advanced Water Purification Center
16	South County Recycled Water Pipeline

Water Supply Capital Projects in Order of Priority (cont'd)

LOWER PRIORITY OR UNFUNDED FUTURE PROJECTS

Priority	Name
100	Dam Seismic Retrofit at 2 Dams (Chesbro & Uvas)
66	SCADA Small Capital Improvements
61	Coyote Pumping Plant ASD Replacement
40	Land Rights - South County Recycled Water PL

Appendix B - Project List By Priority

Flood Protection Capital Projects in Order of Priority

FUNDED

Priority	Name
91	Upper Penitencia Creek, Coyote Creek to Dorel Drive
89	Guadalupe River–Upper, I-280 to Blossom Hill Road (E8)
81	San Francisco Bay Shoreline (E7)
80	Lower Silver Creek, I-680 to Cunningham (Reach 4-6)
78	Berryessa Creek, Calaveras Boulevard to Interstate 680
74	Llagas Creek–Upper, Buena Vista Avenue to Llagas Road
67	Permanente Creek, SF Bay to Foothill Expressway
66	San Francisquito Creek, SF Bay thru Searsville Dam (E5)
65	San Tomas Creek, Quito Road Bridge Replacement
64	Llagas Creek–Lower, Capacity Restoration, Buena Vista Road to Pajaro River
64	Coyote Creek, Montague Expressway to Interstate 280
56	Cunningham Flood Detention Certification
54	Small Capital Improvements - Watersheds
53	Berryessa Ck, Lower Penitencia Ck to Calaveras Blvd
52	Lower Penitencia Ck Improvements, Berryessa to Coyote Cks.
51	Sunnyvale East and West Channels
51	Canoas Creek, Rodent Damage Repair
43	Palo Alto Flood Basin Structure Improvements

LOWER PRIORITY OR UNFUNDED FUTURE PROJECTS

94	Permanente Creek, Hale Creek Construction
32	SF Bay Shoreline Other EIAs Planning

Water Resources Stewardship Capital Projects in Order of Priority

FUNDED

Priority	Name
	Mitigation (All Mitigation projects are required per CEQA or other Regulation and therefore do not receive a score)
	SMP Mitigation, Stream and Watershed Land Preservation
	Environmental Commitment
	None
	Environmental Enhancement
67	Hale Creek Enhancement Pilot Study
54	South Bay Salt Ponds Restoration
51	SCW Fish Passage Improvements
43	Lake Almaden, Guadalupe Rv, Los Alamitos Ck Restoration Planning
40	FAHCE Stevens Creek Fish Passage Enhancement
36	Salt Ponds A5-11 Restoration
	Stewardship
43	SCW Implementation Fund

LOWER PRIORITY OR UNFUNDED FUTURE PROJECTS

74	Permanente Creek Riparian Channel Restoration
35	Lk Almaden/Guad Riv/Alamitos Ck Restoration - Construction

Buildings and Grounds Capital Projects in Order of Priority

FUNDED

Priority	Name
73	Almaden and Winfield Campus, Small Capital Improvements
70	Winfield Capital Improvements
65	Headquarters Operations Building

LOWER PRIORITY OR UNFUNDED FUTURE PROJECTS

70	Fleet and Facility Annex Improvements

Information Technology Capital Projects in Order of Priority

FUNDED

70	PeopleSoft System Upgrade & Expansion
55	Software Upgrades & Enhancements
54	IT Disaster Recovery
54	WTP-WQL Network Equipment
40	Data Consolidation

LOWER PRIORITY OR UNFUNDED FUTURE PROJECTS

N/A	None

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Appendix C - District Partnership Summary

Partnership Reimbursements are funds that are reimbursed by the District's partners after the District advances the needed funds. The following table identifies capital projects that are funded cooperatively with the District's partners through reimbursements.

Partnership Reimbursement

Reimbursements for Current Projects ($K)			Actuals																	
Project Number	Project Name	Agency	Thru FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30	Total
91954001	Pacheco Pumping Plant ASD Replacement	Total	3,930	147	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4,077
		San Benito Water Dist	3,930	147																4,077
91214010	Small Capital Improvements, San Felipe - Reach 1	Total	819	183	3	311	223	110	172	0	0	17	0	242	88	66	407	110	116	2,867
		San Benito Water Dist	819	183	3	311	223	110	172	0	0	17	0	242	88	66	407	110	116	2,867
92144001	Pacheco/Santa Clara Conduit Right of Way Acquisition	Total	17	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
		San Benito Water Dist	17	2																19
92374005	SCADA Remote Architecture & Comm. Upg	Total	0	6	0	82	86	89	141	187	195	203	211	219	0	0	0	0	0	1,419
		San Benito Water Dist	0	6	0	82	86	89	141	187	195	203	211	219						1,419
93084011	Fluoridation at WTPs	Total	0	0	2,400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,400
		The Health Trust	0		1,000															1,000
		First 5 of Santa Clara County	0		900															900
		California Dental Association Foundation	0		500															500
91184008	Silicon Valley Advanced Water Purification Center	Total	22,045	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22,045
		City of San Jose	8,500																	8,500
		DWR - Prop 50	2,935																	2,935
		DWR - Prop 84	2,485																	2,485
		USBR - ARRA	8,125																	8,125
91094007s	South County Recycled Water Pipeline	Total	2,106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,106
		SCRWA	811																	811
		USBR - ARRA	1,295																	1,295
91244001	Wolfe Road Recycled Water Pipeline	Total	202	673	7,525	2,500	0	0	0	0	0	0	0	0	0	0	0	0	0	10,900
		Apple Computer	0		4,800															4,800
		Cal Water	0		1,500															1,500
		City of Sunnyvale	202	673	1,225															2,100
		DWR - Prop 84	0			2,500														2,500
10284007s	San Francisquito Creek, SF Bay to Searsville Dam	Total	0	4,000	4,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8,000
		San Francisquito Joint Powers Authority (DWR)	0	4,000	4,000															8,000
26154001s	Guadalupe River–Upper, I-280 to Blossom Hill Rd	Total	16,292	1,270	200	6,350	4,500	5,800	7,700	2,000	0	0	0	0	0	0	0	0	0	44,112
		State Subventions	12,507	1,270	200	6,350	4,500	5,800	7,700	2,000										40,327
		City of San Jose	3,785																	3,785
26174041s	Berryessa Ck, Calaveras Bvd to Interstate 680	Total	0	2,000	2,000	6,236	2,890	3,558	0	0	0	0	0	0	0	0	0	0	0	16,684
		State Subventions	0			236	2,890	3,558												6,684
		DWR - Prop 1E	0	2,000	2,000	6,000														10,000
40174004	Berryessa Ck, Lwr Penitencia Ck to Calaveras Bvd	Total	0	3,000	6,000	6,000	0	0	0	0	0	0	0	0	0	0	0	0	0	15,000
		DWR - Prop 1E	0	3,000	6,000	6,000														15,000
40334005	Lower Penitencia Ck Improvements, Berryessa to Coyo	Total	0	0	0	1,000	4,000	0	0	0	0	0	0	0	0	0	0	0	0	5,000
		DWR - Prop 1E	0			1,000	4,000													5,000
40264008s	Lower Silver Ck, 680 to Cunningham, Reimb (R4-6)	Total	26,940	8,732	12,000	5,000	0	865	0	0	0	0	0	0	0	0	0	0	0	53,537
		State Subventions	6,264	732	0	0	0	865												7,861
		DWR - Prop 1E	0	8,000	12,000	5,000														25,000
		NRCS-ARRA	20,676																	20,676
50284010	Llagas Creek–Lower, Capacity Restoration, Buena Vista	Total	120	0	0	5,000	0	0	0	0	0	0	0	0	0	0	0	0	0	5,120
		State Subventions	120			5,000														5,120
26174051s	Llagas Creek–Upr, Buena Vista Rd to Wright Ave	Total	9,302	350	1,369	5,455	23,774	0	0	0	0	0	0	0	0	0	0	0	0	40,250
		State Subventions	5,961	350	1,369	5,455	23,774													36,909
		City of Morgan Hill	3,341																	3,341
26444002	San Francisco Bay Shoreline (EIA 1-10a)	Total	0	420	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	420
		State Bond - DWR	0	420																420
		SUBTOTAL - Reimbursements from Current Projects	81,773	20,783	35,497	37,934	35,473	10,422	8,013	2,187	195	220	211	461	88	66	407	110	116	233,956

Partnership Reimbursement (cont'd)

Pending Reimbursements for Closed Projects	Agency	Thru FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30	Total
30154013s Guadalupe River–DT, I-880 to I-280	**Total**	**39,480**	**0**	**0**	**110**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**39,590**
	State Subventions	27,618			110														27,728
	City of San Jose	1,654																	1,654
	San Jose Redev Agency	10,208																	10,208
26104001 Calabazas Creek, Miller Avenue to Wardell Road	**Total**	**0**	**64**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**64**
	City of Saratoga	0	64																64
SUBTOTAL - Reimbursements for Closed Projects		**39,480**	**64**	**0**	**110**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**39,654**
TOTAL REIMBURSEMENTS		**121,253**	**20,847**	**35,497**	**38,044**	**35,473**	**10,422**	**8,013**	**2,187**	**195**	**220**	**211**	**461**	**88**	**66**	**407**	**110**	**116**	**273,610**

Appendix C - District Partnership Summary

Partnership Funding is funds that are made available by the District's partners, when needed. The following table identifies capital projects that receive partnership funding. This may occur through either cost sharing agreements or as in-kind services.

Partnership Funding

Project Number	Project Name	Amount ($K)	Partnering Agency
26174041s	Berryessa Creek, Calaveras Boulevard to Interstate 680	13,600	U.S. Army Corps of Engineers
26154001s	Guadalupe River–Upper, Interstate 280 to Blossom Hill Road	188,000	U.S. Army Corps of Engineers
26174051s	Llagas Creek–Upper, Buena Vista Road to Wright Avenue	65,000	U.S. Army Corps of Engineers
00044026s	San Francisco Bay Shoreline	91,250	Primarily Corps, Coastal Conservancy, US Fish & Wildlife, CA Wildlife Conservation, Packard-Hewlett-Goldman-Moore Foundations
10284007s	San Francisquito Creek, SF Bay thru Searsville Dam	3,000	SFJPA (DWR; $8M); USACE ($3M)
10284007s	San Francisquito Creek, SF Bay thru Searsville Dam	1,500	County of San Mateo
20194005	San Tomas Creek, Quito Road Bridge Replacement	300	City of Saratoga
20194005	San Tomas Creek, Quito Road Bridge Replacement	300	Town of Los Gatos
20194005	San Tomas Creek, Quito Road Bridge Replacement	4,115	CALTRANS
40324003s	Upper Penitencia Creek, Coyote Creek to Dorel Drive	102,720	U.S. Army Corps of Engineers
	TOTAL	$ 469,785	

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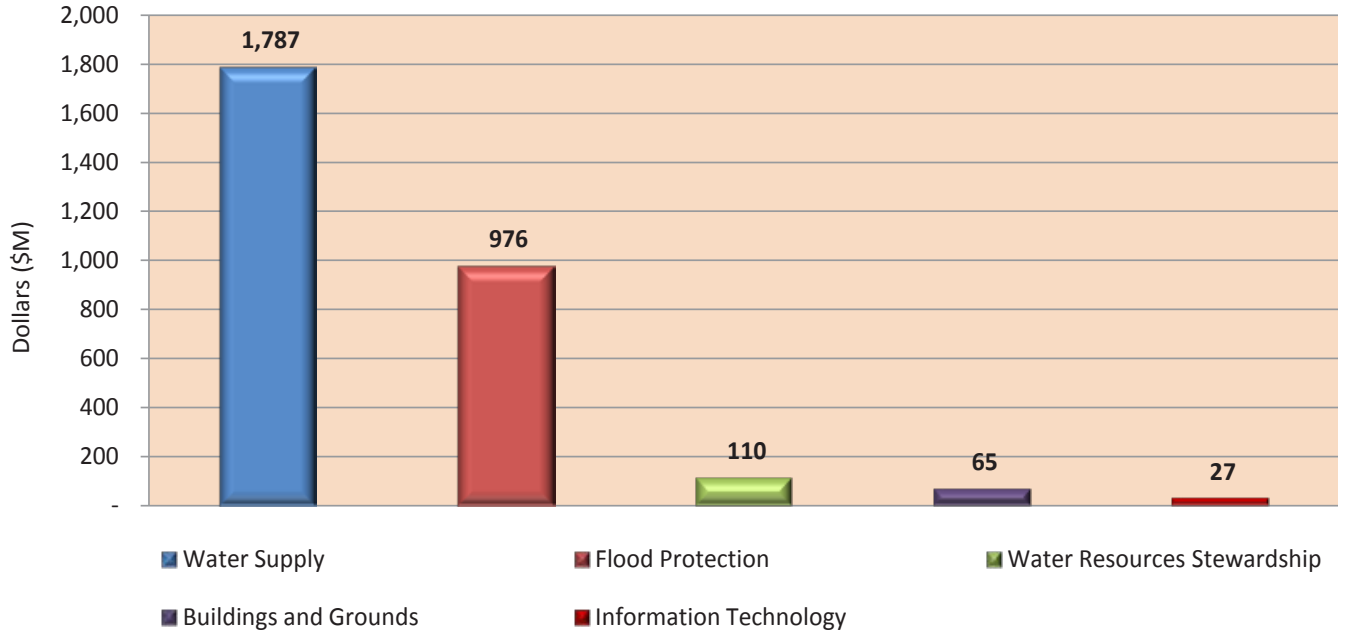
Appendix D - Summary of Capital Expenditures

Expenditure Schedule by Type of Improvement ($K)

	THRU FY14 (Actuals)	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26-30	TOTAL
Water Supply	212,565	77,623	138,888	129,441	148,565	217,279	144,615	45,630	112,029	36,974	44,279	38,148	440,464	1,786,500
Flood Protection	343,820	88,688	237,436	145,113	43,075	48,081	36,755	17,094	8,260	7,270	275	286	328	976,481
Water Resources Stewardship	9,899	7,240	6,630	12,444	25,188	15,821	8,833	2,490	2,577	2,368	2,463	2,562	11,198	109,713
Buildings and Grounds	1,037	2,833	10,969	7,892	12,625	2,360	2,475	2,530	2,583	2,637	2,693	2,749	11,590	64,973
Information Technology	1,199	1,615	3,965	2,656	569	956	511	1,115	747	-	3,151	2,057	8,265	26,806
TOTAL	568,520	177,999	397,888	297,546	230,022	284,497	193,189	68,859	126,196	49,249	52,861	45,802	471,845	2,964,473

CIP Expenditures by Type of Improvement

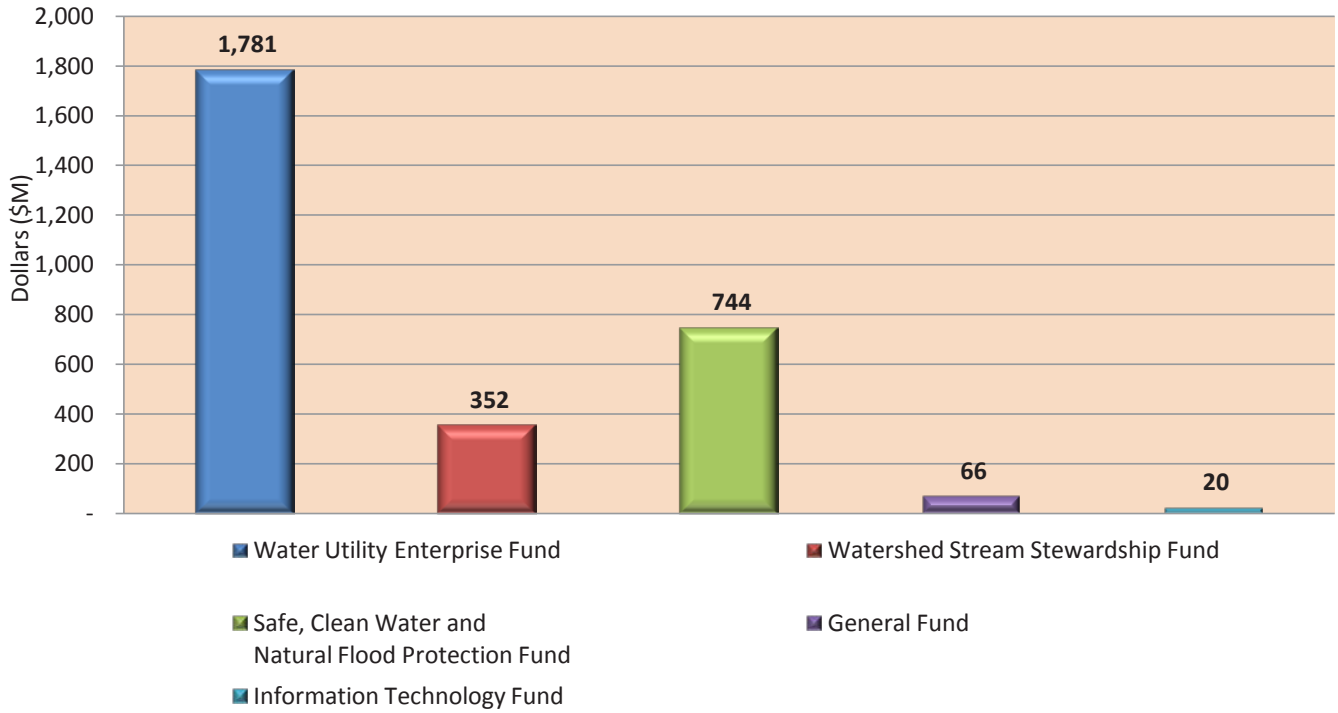


Appendix D - Summary of Capital Expenditures

Expenditure Schedule by Fund ($K)

	THRU FY14 (Actuals)	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26-30	TOTAL
Water Utility Enterprise Fund	213,330	77,458	137,986	120,682	152,174	218,151	145,444	46,460	112,997	37,763	48,005	38,479	431,782	1,780,711
Watershed Stream Stewardship Fund	179,744	41,561	46,392	39,579	22,601	12,208	1,457	997	859	789	821	854	3,733	351,595
Safe, Clean Water and Natural Flood Protection Fund	173,210	54,997	198,851	126,819	42,146	50,919	43,330	17,757	9,119	8,059	1,096	2,413	16,699	745,415
General Fund	2,236	2,833	10,969	7,892	12,625	2,360	2,475	2,530	2,583	2,637	2,693	2,749	11,590	66,172
Information Technology	-	1,150	3,690	2,574	476	859	484	1,115	638	-	246	1,307	8,042	20,581
TOTAL	568,520	177,999	397,888	297,546	230,022	284,497	193,189	68,859	126,196	49,249	52,861	45,802	471,845	2,964,473

CIP Expenditures by Fund



Appendix E - Feasibility Studies

Projects listed in the Feasibility Studies appendix are potential future capital projects. Operations staff is collecting data and analyzing alternatives to determine if a capital investment is a cost-effective solution. After completion of a feasibility study, these projects will be validated before they are indentified as capital projects, and considered for addition to the CIP.

Feasibility Studies

Project Name	Water Supply	Flood Protection	Water Resources Stewardship	Buildings & Grounds	Information Technology
Ogier Ponds Separation from Coyote Creek			X		

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Appendix F - Glossary

Ad Valorem Tax
A tax based on value (e.g., a property tax).

Appropriation
An appropriation is a legal authorization granted by the Santa Clara County Board of Supervisors which allows the District to expend cash and incur obligations for specific purposes. An appropriation is usually limited in amount and the time it may be expended.

Assessment
The process of setting the official valuation of property for taxation; the valuation placed upon property as a result of this process.

Asset
A probable future economic benefit obtained or controlled by a particular entity as a result of past transactions or events. Examples of assets are cash, receivables, and equipment.

Benefit Assessment
Determination of the benefits derived from District activities within particular watersheds and levying a proportionate share of taxes to each parcel subject to voter-approved limitations.

Bonds
Bonds are a long-term source of debt that provides a source of borrowed monies that can be used to pay for specific capital facilities. Bonds are a written promise to pay a specified sum of money at a predetermined date or dates in the future, called the maturity date(s), together with periodic interest at a specific rate.

Capital Expenditure
Capital expenditures fall into several categories. In general, they should create assets or extend the useful lives of existing assets. The work product results in a long-term benefit greater than two years and for budgeting purposes involved a major expenditure of district resources greater than $50,000. They can be made with regard to tangible and intangible assets. The general categories of capital expenditures are: rehabilitation, major repairs, improvements/ betterments/ upgrades, replacements, expansions/ additions, and ancillary expenditures.

Capital Projects
Projects are budgeted within the Capital budget and fall within the definition of Capital Expenditures; which means they (1) create or extend the life of an asset, (2) their work products have a useful life of greater than two years, and (3) they involve an expenditure of District resources in excess of $50,000.

Certificates of Participation (COPs)
A security in the general form of a bond, which evidences a proportionate participation in a flow of lease or other payments between two parties.

CEQA
California Environmental Quality Act

CIP
Capital Improvement Program

Cost Center
Cost Centers are separate financial accounting centers in which costs are accumulated because of legal and accounting requirements, the first two digits of a project number identifies the cost center.

DPR
Direct Potable Reuse

DWR
State Department of Water Resources

EIR
Environmental Impact Report

Encumbrances
Commitments related to unperformed (executory) contracts for goods or services. Encumbrances represent the estimated amount of expenditures that will result if unperformed contracts in process are completed.

Appendix F - Glossary

Enterprise Fund
Enterprise Funds are used to account for operations including debt service (a) that are financed and operated in a manner similar to private business, where the intent of the government body is that the costs (expenses, including depreciation) of providing goods or services to the general public on a accounting basis is financed or recovered primarily though user charges; or (b) where the governing body has determined that periodic determination of revenues earned, expenses incurred, and/or net income is appropriate for capital maintenance, public policy, management control accountability, or other purposes.

Expenditure/Expense
Decreases in net financial resources. Expenditures include current operating expenses requiring the present or future of net current assets, debt service and capital outlays, and intergovernmental grants, entitlements, and shared revenues. The major expenditure categories used by the District are labor and overhead, land and structures, equipment, and debt service.

Facility
Defined as a creek, reservoir, dam, water treatment plant, pipeline, canal, etc.

Fixed Assets
Fixed Assets are defined as long-lived tangible assets such as automobiles, computers and software, furniture, communications equipment, hydrologic equipment, office equipment, and other equipment, with a value of $2,000 or more, or the combined value of like or related units (aggregate value) is greater than $5,000 if the unit value is less than $2,000.

Fiscal Year
A 12-month period to which the annual operating budget applies and at the end of which a government determines its financial position and the results of its operations. The District's fiscal year is July 1 through June 30.

Fund
A fiscal and accounting entity with a self-balancing set of accounts in which cash and other financial resources, all related liabilities and residual equities, or balances, and changes therein, are recorded and segregated to carry on specific activities or attain certain objectives in accordance with special regulations, restrictions or limitations.

General Fund
A fund used to account for major operating revenues and expenditures, except for those financial transactions that are required to be accounted for in another fund. General Fund revenues are derived primarily from property and other taxes.

Grants
Contributions or gifts of cash or other assets from another government entity to be used or expended for a specified purpose, activity, or facility.

IPR
Indirect Potable Reuse

Levy
(1. Verb) To impose taxes, special assessments, or service charges for the support of government activities; (2. Noun) The total amount of taxes, special assessments, or service charges imposed by a government agency.

Long-Term Debt
Debt with a maturity date of more than one year after the date of issuance.

One Percent Flood or 100 Year Flood
Has a 1% chance of occuring in a given year. Water District projects are usually designed for the 1% flood, a national standard established by the Federal Emergency Management Agency (FEMA).

Appendix F - Glossary

Operating Expenditure

Operating expenditures are system costs required for the daily process of providing water and watershed management services, including the administrative and overhead costs to support these services.

Operating expenditures are costs necessary to maintain the systems in good operating condition. This includes the repair and replacement of minor property components. The American Waterworks Association (AWWA) says that these priority components should be smaller than a retirement unit; a retirement unit is a readily separable and separately useful item that is part of a larger assembly. The benefit and life of such repairs should be less than two years. Any repairs that recur on an annual basis are considered operating activities of a maintenance nature.

Operating expenditures are often separated into fixed and variable costs for purposes of understanding operating leverage and structuring service charge rates.

Operations

Expenditures required for the daily process of providing water and watershed management services, including the administrative and overhead costs to support these services. Operations include work that is generally of an ongoing or recurring nature. Any District work that is not a project is, by definition, an Operation. Operations, although recurring, require close coordination and a high degree of management oversight; however, they can be accomplished without the application of the full range of tools and processes used for managing projects.

Projects

At the Santa Clara Valley Water District, a project is any undertaking which has (1) a beginning and an ending, (2) a one-time occurrence. Projects can require expenditure of capital or operating funds and, at the District, are called Capital or Operating Projects, accordingly. Project usually, but no always, relate to a District facility or facilities (a creek, a reservoir, a dam, a water treatment plant, a pipeline,, etc.). Projects may include studies, design, construction, maintenance, or implementation of systems such as Records Management or Financial Management System.

Revenue

Monies the District receives in exchange for services or sales provided. Revenue items include water sales, property tax revenues, benefit assessment revenues, interest income, intergovernmental reimbursement, and other.

Revenue Bonds

Bonds, whose principal and interest are payable exclusively from earnings of an enterprise fund. In addition to a pledge of revenues, such bonds sometimes contain a mortgage on the enterprise fund's property.

Reserve

An account used to indicate that a portion of a fund's assets are legally restricted for a specific purpose and is, therefore, not available for general appropriation.

WTP

Water Treatment Plant

WQL

Water Quality Lab

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